



*moving things forward*

**PREMIUM LUBRICANT OIL**

**MARINE**

# INDEX

Introduction

## ***ENGINES***

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Slow-Speed engines	6
Medium-Speed engines	8
High- Speed engines	10
Special Applications	11

## ***AUXILIARY MACHINERY***

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Hydraulic	13
Gears	14
Stern tube	17
Turbine	18
Compressor	20
Refrigeration compressor	21
Heat transfer	22
Grease	23
2T 2 Stroke engine oil	26
4T 4 Stroke engine oil	27

## ***BIODEGRADABLE LUBRICANTS***

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Hydraulique	30
Arrière	32
BIO 220	33
Packaging	35

## INTRODUCTION

We provide a complete range of high quality marine lubricants that are designed to protect and enhance the efficiency of engines and equipment. All of our products are backed by our industry-leading technical support services and used oil testing services that enable optimal maritime operation.

Johnson Marine delivers the latest technology and state of oil Marine Grade Range. It covers main and minor grades of proven quality.

## QUALITY ASSURANCE

Our Engines oils have excellent deposits and wear control and meets the demand of latest and highly rated engines designs as well as all other applications.

Our Two-Stroke engine oils range consist of system oil and known for low sulphur application

Our Four-Stroke engine oil offers different level of alkalinely-reserve and covers highly loaded engines at low lube oil consumption from distillate to heavy fuel operations.

We offer very high quality product range for ancillary machinery application a cooperation with one leading marine additive manufacturing, that is covering Hydraulic / Gear / Compressor / Turbine / Refrigeration / Grease, exclusive from Johnson.



## SECTOR CHALLENGES

At JOHNSON we have developed a wide range of lubricants that cover all the lubrication needs in the marine world, both for engines and the rest of machinery on board.

We provide our clients with marine oils for 2-stroke and 4-stroke technology propulsion engines, as well as all the other lubricants and greases used in the vessel's diverse machinery. We also supply biodegradable oils (EALs) for equipment that may pollute its environment, as well as for vessels sailing in waters where international VGP standards must be complied with. You'll find them differentiated as follows:

### Biodegradable Lubricants.

Today marine equipment faces ever-increasing challenges that are presented in different ways, partly due to the demand for the full availability of the equipment frequently used at full load, but mainly due to the extreme environments in which they operate.

In these extreme operating conditions, lubricants must provide, in addition to their standard function, extra protection in order to maintain or increase equipment reliability and availability, as well as facilitate maintenance management.

JOHNSON Lubricants, with their extensive experience in this type of applications, have demonstrated their high performance and response capacity, ensuring customers full equipment availability.

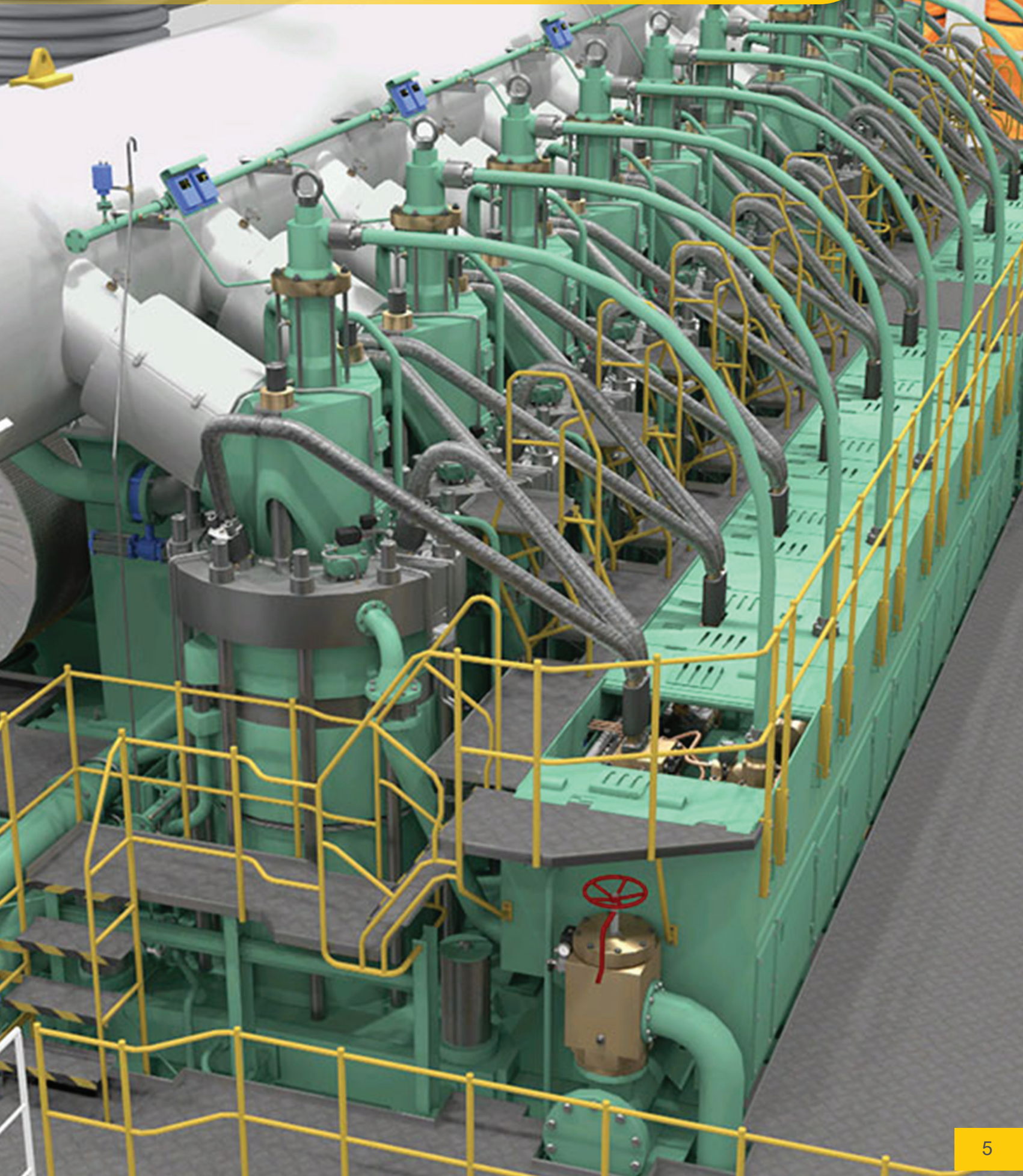
The JOHNSON Lubricants range is designed to respond to extremely demanding operating conditions: greater resistance to oxidation (higher working temperatures), lower viscosity loss (use of top-quality bases), greater anti-wear capacity (developments), etc., offering high resistance in this operating environment.

In addition to the cutting-edge technology used by JOHNSON to manufacture its lubricants, its extensive experience in the field and the data obtained from the analysis of thousands of samples provide valuable information that is taken into account in the development and adaptation of its range of lubricating oils, to a great extent contributing to the excellence of its products.

In line with our philosophy of ongoing innovation and improvement, we present our Marine Lubricants Catalogue in which we have selected the most widely-used products in the sector, of which JOHNSON offers you a wide range of products. In this selection you will find two categories based on their geographic availability differentiated as follows:



# ENGINE



# **SLOW - SPEED ENGINES**

JOHNSON Marine have full series of slow speed diesel engine oils, which is developed with heavy base stock and specially designed additive control. Two segments of this series are formulated for two very different applications, first is the VITESSA LENTE and the second is the VITESSA UNIVERSAL. Both are termed high performance lubricants and provide enhanced protection from mechanical wear as well as mitigation of cold corrosion. They are fully capable to optimize feed rates and reduce operating cost.

## **VITESSA LENTE 50-25**

**JOHNSON VITESSA LENTE 50-25** marine cylinder oil for slow-speed 2-stroke engines running on ECA fuels below 0,1% sulfur, is a highly reliable low alkaline lubricant, ensuring reliable operations with ECA compliant ultra low sulphur fuels, provides excellent cleanliness and outstanding deposit control, its low-ash content are protected against deposit formation which can lead to scuffing issues. **JOHNSON VITESSA LENTE 50-25** meets the requirements of Japan Engine Corporation, MAN ES, and WinGD.

**SAE Grade: 50    TBN 25**

### **Meet & Exceed**

MAN Diesel & Turbo  
and Wärtsilä 2-stroke

## **VITESSA LENTE 50-40**

**JOHNSON VITESSA LENTE 50-40** marine cylinder oil for slow-speed 2-stroke engines running on ECA fuels using low sulfur residual fuels below (1.0% sulfur), It's special formulation to maintains engine cylinder cleanliness and minimizes deposit build-up on piston crowns, rings and liners, With its low BN and its conventional calcium carbonate chemistry, it is optimized to efficiently lubricate engines. **JOHNSON VITESSA LENTE 50-40** meets the requirements of Japan Engine Corporation, MAN ES, and WinGD.

**SAE Grade: 50    TBN 40**

### **Meet & Exceed**

MAN Diesel & Turbo  
and Wärtsilä 2-stroke

## **VITESSA LENTE UNIVERSAL 50-57**

**JOHNSON VITESSA LENTE UNIVERSAL 50-57** marine cylinder oil for all 2-stroke engines using fuels and Dual Fuel with a sulfur range of 0.0 to 1.5%. the single oil solution, designed to lubricate engines using a wide range of fuels. Chemistry ensures optimum engine cleanliness and efficient acid neutralization. **JOHNSON VITESSA LENTE UNIVERSAL 50-57** meets the requirements of Japan Engine Corporation, MAN ES, and WinGD.

**SAE Grade: 50    TBN 57**

### **Meet & Exceed**

MAN Diesel & Turbo  
and Wärtsilä 2-stroke

## **VITESSA LENTE 50-70**

**JOHNSON VITESSA LENTE 50-70** marine cylinder oil for slow-speed 2-stroke engines running on high sulfur fuel oils, Using conventional mineral chemistry, its high BN efficiently neutralises sulphuric acid formed during combustion of high sulphur residual fuels, this prevents corrosion, cylinder wear and scuffing, and can extend the length of time between engine overhauls, it can work in various operating conditions. **JOHNSON VITESSA LENTE 50-70** meets the requirements of Japan Engine Corporation, MAN ES, and WinGD.

**SAE Grade: 50    TBN 57**

### **Meet & Exceed**

MAN Diesel & Turbo  
and Wärtsilä 2-stroke

## VITESSE LENTE UNIVERSAL 50-100

**JOHNSON VITESSE LENTE UNIVERSAL 50-100** is designed exclusively for modern Tier II and Tier III engines using high sulphur residual fuel oil, and has a high BN of 100, allowing for the most stringent and corrosive service conditions. It is capable of keeping engine cylinders clean and preventing engine damage when high sulphur heavy fuel oils (HSHFOs) are used, as well as when the engine is operated over extended periods of intense operation. **JOHNSON VITESSE LENTE UNIVERSAL 50-100** meets the requirements of Japan Engine Corporation, MAN ES, and WinGD.

SAE Grade: 50 TBN 100

### Meet & Exceed

MAN Diesel & Turbo  
and Wärtsilä 2-stroke

## VITESSE LENTE 50-100

**JOHNSON VITESSE LENTE 50-100** marine cylinder oil BN 100 for slow-speed 2-stroke engines running on any fuel oils in the range 0,0% to 3,5% sulphur, the innovative formulation using Ashfree Neutralizing Molecules provides superior acid neutralization and outstanding cylinder cleanliness, exceeding the capability of conventional oil. **JOHNSON VITESSE LENTE 50-100** meets the requirements of Japan Engine Corporation, MAN ES, and WinGD.

SAE Grade: 50 TBN 100

### Meet & Exceed

MAN Diesel & Turbo  
and Wärtsilä 2-stroke

## VITESSE LENTE 50-140

**JOHNSON VITESSE LENTE 50-140** marine cylinder oil for slow-speed 2-stroke engines especially suitable for those known to be susceptible to the cold corrosion phenomenon. **JOHNSON VITESSE LENTE 50-140** is able to efficiently neutralise sulphuric acid formed during combustion of high sulphur residual fuels whilst ensuring optimum engine cleanliness and minimising component wear. It is also suitable for use in on-board Mixing Systems when used in conjunction. **JOHNSON VITESSE LENTE 50-140** meets the requirements of Japan Engine Corporation, MAN ES, and WinGD.

SAE Grade: 50 TBN 140

### Meet & Exceed

MAN Diesel & Turbo  
and Wärtsilä 2-stroke

## SYSTÈME 30-5

**JOHNSON SYSTÈME 30-5** system oil has been specifically designed for the lubrication of slow speed 2-stroke crosshead diesel engines. offers excellent detergency, thermal stability and resistance to foaming, anti-oxidant properties enable superb antirust and anti-corrosive capability, Developed in close collaboration with major OEMs, **JOHNSON SYSTÈME 30-5** meets the requirements of Japan Engine Corporation, MAN ES, and WinGD.

SAE Grade: 30 TBN 5

### Meet & Exceed

- MAN ES (MAN B&W)
- WinGD (Wärtsilä)
- Japan Engine Corporation (UE Engines)

## SYSTÈME 40-5

**JOHNSON SYSTÈME 40-5** system oil for 2-stroke crosshead diesel engine crankshafts. With excellent detergency and dispersancy properties to maintain the circuit clean and protect metallic parts against wear, corrosion and the build-up of lacquers and varnishes. **JOHNSON SYSTÈME 30-5** meets the requirements of Japan Engine Corporation, MAN ES, and WinGD.

SAE Grade: 40 TBN 5

### Meet & Exceed

- MAN ES (MAN B&W)
- WinGD (Wärtsilä)
- Japan Engine Corporation (UE Engines)

# MEDIUM - SPEED ENGINES

JOHNSON, always striving to be at the forefront of innovation and technology in the maritime sector, and Johnson offers a wide range of lubricants for large vessels with slow-speed 2-stroke engines to protect the engine and ensure smooth operation regardless of the quality of fuel used. A unique combination of chemically modified additives in combination with a broad TBN range make Johnson's 2-stroke engine lubricants an outstanding choice for all working conditions.

The 2-stroke lubricants range ensures minimum engine wear, maximum cleanliness, lower maintenance costs and long review periods.

## MOYENNE 30-15

**JOHNSON MOYENNE 30-15** is a new generation of lubricant oils can be used in main and auxiliary engines of all types and ratings which run on marine diesel or intermediate fuel oil with low sulphur content. As a result, it offers excellent detergency and dispersant properties, which are effective in the entire range of engine operating temperatures. It is also suitable for lubrication of bearings, stern tubes, and reduction gears. **JOHNSON MOYENNE 30-15** meets the requirements of Japan Engine Corporation, MAN ES, and WinGD.

SAE Grade: 30 TBN 15

### Meet & Exceed

- WÄRTSILÄ
- MAN ENERGY SOLUTIONS
- CATERPILLAR MAK
- YANMAR
- DAIHATSU; HiMSEN
- ROLLS-ROYCE

## MOYENNE 30-20

**JOHNSON MOYENNE 30-20** designed for use in highly rated, medium speed diesel engines used for both marine and stationary power generation. Engines using residual heavy fuel oil with low sulfur content. It is also suitable for dual fuel 4-stroke engines. The product can also be used to lubricate bearings, stern tubes and reduction gears. **JOHNSON MOYENNE 30-20** meets the requirements of Japan Engine Corporation, MAN ES, and WinGD.

SAE Grade: 30 TBN 20

### Meet & Exceed

- WÄRTSILÄ
- MAN ENERGY SOLUTIONS
- CATERPILLAR MAK
- YANMAR
- DAIHATSU; HiMSEN
- ROLLS-ROYCE

## MOYENNE 30-30

**JOHNSON MOYENNE 30-30** marine trunk piston engine oil for 4-stroke medium speed diesel engines running on high sulfur heavy fuel oil (HSFO) for marine and stationary power generation, ensures outstanding cleanliness of both the hot and cold parts of an engine. Excellent resistance to the negative effects of residual fuel contamination. Excellent thermal resistance and oxidation resistance. Good wear protection and excellent oil film strength at extreme pressures. **JOHNSON MOYENNE 30-30** meets the requirements of Japan Engine Corporation, MAN ES, and WinGD.

SAE Grade: 30 TBN 30

### Meet & Exceed

- WÄRTSILÄ
- MAN ENERGY SOLUTIONS
- CATERPILLAR MAK
- YANMAR
- DAIHATSU; HiMSEN
- ROLLS-ROYCE

## MOYENNE 30-40

**JOHNSON MOYENNE 30-40** range of trunk piston engine oils are developed for use in medium speed diesel engines utilising IMO 2020 compliant and residual fuels, combines an exclusive formulation of the latest additive technologies, developed by the Johnson research center, the product utilizes and highly refined base oils to provide a substantial safety margin able to cope with higher stress levels. **JOHNSON MOYENNE 30-40** meets the requirements of Japan Engine Corporation, MAN ES, and WinGD.

SAE Grade: 30 TBN 40

### Meet & Exceed

- WÄRTSILÄ
- MAN ENERGY SOLUTIONS
- CATERPILLAR MAK
- YANMAR
- DAIHATSU; HiMSEN
- ROLLS-ROYCE



## MOYENNE 40-15

**JOHNSON MOYENNE 40-15** new generation of lubricant oils developed for main and auxiliary engines of all types and ratings running on marine diesel or intermediate fuel oil with low sulphur content. Its noted for their good detergency and dispersant properties in the whole engine operation temperature range, excellent anti-wear protection. Its also suitable for the lubrication of bearings, stern tubes and reduction gears.

**JOHNSON MOYENNE 40-15** meets the requirements of Japan Engine Corporation, MAN ES, and WinGD.

SAE Grade: 40 TBN 15

### Meet & Exceed

- WÄRTSILÄ
- MAN ENERGY SOLUTIONS
- CATERPILLAR MAK
- YANMAR
- DAIHATSU; HiMSEN
- ROLLS-ROYCE

## MOYENNE 40-20

**JOHNSON MOYENNE 40-20** marine trunk piston engine oil for 4-stroke medium speed diesel or dual-fuel engines running on low sulfur fuel oil (LSFO) for marine and stationary power generation, The product offers excellent resistance to the negative effects of residual fuel contamination, along with excellent thermal resistance and oxidation resistance, is also very water resistant, with outstanding demulsibility capacity, enabling rapid removal of water after an ingress and the maintenance of good engine performance. **JOHNSON MOYENNE 40-20** meets the requirements of Japan Engine Corporation, MAN ES, and WinGD.

SAE Grade: 40 TBN 20

### Meet & Exceed

- WÄRTSILÄ
- MAN ENERGY SOLUTIONS
- CATERPILLAR MAK
- YANMAR
- DAIHATSU; HiMSEN
- ROLLS-ROYCE

## MOYENNE 40-30

**JOHNSON MOYENNE 40-30** marine trunk piston engine oil for 4-stroke medium speed diesel or dual-fuel engines running on low sulfur fuel oil (LSFO) for marine and stationary power generation, Good detergency and dispersant capacity in a wide range of temperatures, high oxidation resistance and excellent anti-wear protection, cleanliness of both the hot and cold parts of an engine. **JOHNSON MOYENNE 40-30** meets the requirements of Japan Engine Corporation, MAN ES, and WinGD.

SAE Grade: 40 TBN 30

### Meet & Exceed

- WÄRTSILÄ
- MAN ENERGY SOLUTIONS
- CATERPILLAR MAK
- YANMAR
- DAIHATSU; HiMSEN
- ROLLS-ROYCE

## MOYENNE 40-40

**JOHNSON MOYENNE 40-40** is exceeds the CF specification defined by the American Petroleum Institute (API), specially formulated for marine trunk piston engine oil for 4-stroke medium speed diesel or dual-fuel engines running on low sulfur fuel oil (LSFO) for marine and stationary power generation, high ability to reduce heavy deposit build-up in an engine creates savings via a reduction in maintenance costs. **JOHNSON MOYENNE 40-40** meets the requirements of Japan Engine Corporation, MAN ES, and WinGD.

SAE Grade: 40 TBN 40

### Meet & Exceed

- WÄRTSILÄ
- MAN ENERGY SOLUTIONS
- CATERPILLAR MAK
- YANMAR
- DAIHATSU; HiMSEN
- ROLLS-ROYCE

## MOYENNE 40-50

**JOHNSON MOYENNE 40-50** marine trunk piston engine oil for 4-stroke medium speed diesel or dual-fuel engines running on low sulfur fuel oil (LSFO) for marine and stationary power generation, ensures outstanding cleanliness of both the hot and cold parts of an engine. It contains a strengthened alkaline reserve to neutralise combustion acids in all engines running on high sulphur heavy fuel oils and very low lubricant oil consumption. **JOHNSON MOYENNE 40-55** meets the requirements of Japan Engine Corporation, MAN ES, and WinGD.

SAE Grade: 40 TBN 50

### Meet & Exceed

- WÄRTSILÄ
- MAN ENERGY SOLUTIONS
- CATERPILLAR MAK
- YANMAR
- DAIHATSU; HiMSEN
- ROLLS-ROYCE

# HIGH - SPEED ENGINES

Johnson, Grande series is designed for the highest performing range of high performance engines, providing the greatest level of cleanliness and protection which results in an extended life of your engine. It can help to lower your maintenance cost.

## GRANDE 15W40-10

**JOHNSON GRANDE 15W40-10** is a multigrade marine trunk piston engine oil for highly rated diesel engines (life boat engines, emergency power units, fire pumps). Very stable multigrade feature enabling the lubricant to be used in all seasons. Very high detergent properties at high temperature and high dispersant properties at low temperature. Excellent thermal stability and oxidation resistance.

**JOHNSON GRANDE 15W40-10** meets the requirements of Japan Engine Corporation, MAN ES, and WinGD.

**SAE Grade: 15W-40 TBN 10**

### Meet & Exceed

- WÄRTSILÄ
- MAN ENERGY SOLUTIONS
- CATERPILLAR MAK
- YANMAR
- DAIHATSU; HIMSEN
- ROLLS-ROYCE

## GRANDE 30-12

**JOHNSON GRANDE 30-12** is indicated for modern high-speed and medium-speed engines using distillate and semi-distillate fuels up to contents of 1% sulphur or MDO. These oils have a high detergent capacity, neutralise combustion acids and alkaline reserve for excellent thermal stability.

**JOHNSON GRANDE 30-12** meets the requirements of Japan Engine Corporation, MAN ES, and WinGD.

**SAE Grade: 30 TBN 12**

### Meet & Exceed

- WÄRTSILÄ
- MAN ENERGY SOLUTIONS
- CATERPILLAR MAK
- YANMAR
- DAIHATSU; HIMSEN
- ROLLS-ROYCE

## GRANDE 40-12

**JOHNSON GRANDE 40-12** is a monograde marine trunk piston engine oil for highly rated high speed diesel engines, adapted to high sulfur distillate fuels up to 0.5%S. Excellent detergent and dispersant capabilities guaranteeing engine cleanliness in all running conditions. Very good anti-corrosion and anti-oxidation capabilities providing engine durability. Excellent anti-wear and extreme pressure performances allowing use in reduction gears.

**JOHNSON GRANDE 40-12** meets the requirements of Japan Engine Corporation, MAN ES, and WinGD.

**SAE Grade: 40 TBN 12**

### Meet & Exceed

- WÄRTSILÄ
- MAN ENERGY SOLUTIONS
- CATERPILLAR MAK
- YANMAR
- DAIHATSU; HIMSEN
- ROLLS-ROYCE

## GRANDE 40-20

**JOHNSON GRANDE 40-20** is designed to meet the needs of a wide range of high-speed marine diesel engines operating under all conditions. It's additive technology helps protect against corrosion and wear throughout the oil-drain interval, control piston deposits and maintain good standards of engine cleanliness. It can be used in many aspirated and turbo-charged engines to provide protection and longer engine life.

**JOHNSON GRANDE 40-20** meets the requirements of Japan Engine Corporation, MAN ES, and WinGD.

**SAE Grade: 40 TBN 20**

### Meet & Exceed

- WÄRTSILÄ
- MAN ENERGY SOLUTIONS
- CATERPILLAR MAK
- YANMAR
- DAIHATSU; HIMSEN
- ROLLS-ROYCE

# **SPECIAL APPLICATION**

## **SPÉCIALE SA40-N13**

**JOHNSON SPÉCIALE SA40-N13** is modern, fifth-generation technology oil, especially designed for use in diesel engines with silver bearings with all types of oils. Its additivation ensures thorough cleaning of internal engine parts, particularly the piston segment area, thus preventing abrasive wear and extending engine life. **JOHNSON SPÉCIALE SA40-N13** meets the requirements of Japan Engine Corporation, MAN ES, and WinGD.

**SAE Grade: 40    TBN 13**

### **Meet & Exceed**

- WÄRTSILÄ
- MAN ENERGY SOLUTIONS
- CATERPILLAR MAK
- YANMAR
- DAIHATSU; HiMSEN
- ROLLS-ROYCE

## **SPÉCIALE SA40-N8.8**

**JOHNSON SPÉCIALE SA40-N8.8** is specifically designed for 2-stroke engines running on distillate fuels (in compliance with Detroit Diesel specifications). Monograde lubricant with high resistance to oxidation, anti-wear properties, high detergentdispersant power and low-ash additivation to prevent inlet port and exhaust blockages. Reacting to your engines' demands, it provides added protection. It can also be used in transmissions and torque converters. **JOHNSON SPÉCIALE SA40-N13** meets the requirements of Japan Engine Corporation, MAN ES, and WinGD.

**SAE Grade: 40    TBN 8.8**

### **Meet & Exceed**

- WÄRTSILÄ
- MAN ENERGY SOLUTIONS
- CATERPILLAR MAK
- YANMAR
- DAIHATSU; HiMSEN
- ROLLS-ROYCE



# HYDRAULIC



# HYDRAULIC

JOHNSON HYDRAULIC fluids for marine applications ensure the lubrication, robustness and reliability of equipment. Their anti-wear, resistance to oxidation, corrosion protection, excellent water separation and high viscosity index properties make all our products exceed in many cases the requirements set forth in DIN 51524 and ISO 6743/4 standards.

## HYDRAULIQUE HVLP 68

**JOHNSON HYDRAULIQUE HVLP 68** is a marine hydraulic oil, particularly recommended for all high pressure and high speed (vane, piston and gear type hydraulic pumps) and for use in all hydraulic equipments operating in extreme temperature conditions, including:

- Remote control systems
- Hydraulic deck machinery
- Steering gears

Especially developed in order to satisfy the wide variations in temperature encountered with modern hydraulic systems.

**ISO: 68**

### Meet & Exceed

- DIN-51524,
- Part 3 (HVLP)
- ISO 6743/4 HV
- ISO 11158
- AFNOR NF E 48-603 HV
- Filterability AFNOR (NF E 48-690 & 48-691)
- Eaton Vickers I-286-S & M-2950-S
- MAG IAS P-68, P-69, P-70 (ex Cincinnati)

## HYDRAULIQUE HVLP 100

**JOHNSON HYDRAULIQUE HVLP 100** fluid are high performance hydraulic fluids based on Group II base oils that provide outstanding protection and performance across a wide range of temperatures. They resist breakdown under heat or mechanical stress and are ideally suited to most mobile equipment and other applications subjected to a wider range of operating temperatures. It have a good stability in the presence of moisture, with ensure long fluid life and reduces the risk of corrosion and rusting, particularly in moist or humid environments.

**ISO: 100**

### Meet & Exceed

- DIN-51524,
- Part 3 (HVLP)
- ISO 6743/4 HV
- ISO 11158
- AFNOR NF E 48-603 HV
- Filterability AFNOR (NF E 48-690 & 48-691)
- Eaton Vickers I-286-S & M-2950-S
- MAG IAS P-68, P-69, P-70 (ex Cincinnati)

## HYDRAULIQUE BIO

**JOHNSON HYDRAULIQUE BIO** is a fully formulated anti-wear, readily biodegradable, environmentally friendly, ecologically responsive, non-toxic fluid designed for high pressure industrial, marine, construction and mobile hydraulic systems, turbines and circulating oil systems that are operated in environmentally sensitive areas. Fully synthetic esters, blended with ashless additives, with a superior blend of lubrication performance.

**ISO: 68**

### Meet & Exceed

- ISO 6743/4 (HEES)
- ISO 15380 (HEES)
- DIN 51524/3 (HV)\*
- Biodegradability OECD 301-B
- Biotelex Ecolabel 46 & 68

## HYDRAULIQUE BIO TMP

**JOHNSON HYDRAULIQUE BIO TMP** is a synthetic biodegradable hydraulic oil featured by outstanding viscosimetric performances and good low temperature behaviour, thus offering a very wide range of operating temperatures. Suitable for any hydraulic system requiring a lubricant with good anti-wear properties, high viscosity index and improved thermal and oxidation stability giving an increased service life of the fluid.

**ISO: 68**

### Meet & Exceed

- ISO 15380 (HEES)
- EAL according to VGP
- Meets Swedish Standard SS155434
- VDMA 24568: HEES
- ROLLS-ROYCE

## ENGRENAGE GL-5 80W90

**JOHNSON ENGRENAGE GL-5 80W90** is a high performance gear lubricant formulated with high performance base oils and an advanced additive system. Its ability to lubricate elements subjected to boundary lubrication (metal/metal contact) and its excellent water separation capacity in the event of pollution, make this lubricant ideal for working in all marine gear subjected to extreme lubrication conditions. Meets the requirements for API GL4 and GL5 performance categories and corresponds to SAE 80W-90 viscosity grade. For outboard and inboard transmissions subject to a normal to high load.

**SAE Grade: 80W-90    API GL-5**

### Meet & Exceed

- MB 235.6
- MAN 342 Type M2
- ZF TE-ML:07A, 16C, 17B, 19B, 21A
- US Military MIL-L-2105D

## ENGRENAGE GL-4 80W90

**JOHNSON ENGRENAGE GL-4 80W90** is a high performance gear lubricant formulated with high performance base oils and an advanced additive system. PAO and ester-based synthetic lubricant for gears running under very severe load and temperature conditions. Its protection against micro-pitting failure is particularly noteworthy. Meets the requirements for API GL4 and GL5 performance categories and corresponds to SAE 80W-90 viscosity grade. For outboard and inboard transmissions subject to a normal to high load.

**SAE Grade: 80W-90    API GL-4**

### Meet & Exceed

- MIL-L-2105
- MAN 341
- MB 235.10
- ZF TE-ML 01,02 and 08
- Massey Ferguson M1110
- JI Case MS 1210

## ENGRENAGE GL-5 85W140

**JOHNSON ENGRENAGE GL-5 85W140** is mineral low-viscosity hypoid gear oil. For vehicles with tried and tested transmission technology. Even under the most difficult conditions and during large temperature fluctuations, it ensures flawless aggregate functioning. Greatest lubrication security, maximum wear protection through large viscosity bandwidth. Outstanding viscosity temperature behavior. Reduces transmission noise.

**SAE Grade: 85W-140    API GL-5**

### Meet & Exceed

- MB 235.6
- MAN 342 Type M2
- ZF TE-ML:07A, 16C, 17B, 19B, 21A
- US Military MIL-L-2105D

## ENGRENAGE GL-4 85W140

**JOHNSON ENGRENAGE GL-4 85W140** is a high performance oil developed for axles, highly loaded gears and hypoid axles with double or single reduction requiring API GL-5 (gear boxes, axles, transfer boxes). Its a premium mineral gear oil, ensures high corrosion protection, even with sea water contamination, and provides lubrication advantages at both high and low temperatures compared to mineral oils. It is particularly adapted for the lubrication ZF manual transmission with drain interval based on OEM recommendations.

**SAE Grade: 85W-140    API GL-4**

### Meet & Exceed

- MIL-L-2105
- MAN 341
- MB 235.10
- ZF TE-ML 01,02 and 08
- Massey Ferguson M1110
- JI Case MS 1210

## ENGRENAGE GL-5 75W80

**JOHNSON ENGRENAGE GL-5 85W140** is a high performance oil developed for axles, highly loaded gears and hypoid axles with double or single reduction requiring API GL-5 (gear boxes, axles, transfer boxes). Its a premium mineral gear oil, ensures high corrosion protection, even with sea water contamination, and provides lubrication advantages at both high and low temperatures compared to mineral oils. It is particularly adapted for the lubrication ZF manual transmission with drain interval based on OEM recommendations.

**SAE Grade: 85W-140    API GL-4**

### Meet & Exceed

- MB 235.6
- MAN 342 Type M2
- ZF TE-ML:07A, 16C, 17B, 19B, 21A
- US Military MIL-L-2105D

## ENGRENAGE GL-5 75W90

**JOHNSON ENGRENAGE GL-5 75W-90** is fully synthetic high-performance gear oil with extremely high performance reserves. Ensures assemblies function perfectly, even under extreme operating conditions and when exposed to large temperature fluctuations. Meets the requirements for API GL4 and GL5 performance categories and corresponds to SAE 75W-90 viscosity grade. For marine transmissions which require a top quality lubricant. Also suitable for drive wheels of different categories and reverse gears. Exceeds the highest test requirements of well-known transmission manufacturers.

**SAE Grade: 75W-90**

### Meet & Exceed

- API GL4/5
- API MT-1

## ENGRENAGE ISO 100

**JOHNSON ENGRENAGE ISO 100** is high performance gear oils having outstanding extreme pressure characteristics and load-carrying properties, intended for use in all types of enclosed gear drives with circulation or splash lubrication systems. It designed to stay ahead of the changing needs of gearbox technology. Gearbox technology design trends are towards smaller units with similar power throughput. This increase in power density places increased demands on gear oils. This product are formulated to meet the stress by providing extra protection for gears, bearings and seals.

**ISO: 100**

### Meet & Exceed

- DIN 51517 Part 3
- ISO 12925-1 Type CKC
- AGMA 9005 E-02
- David Brown S1.53 101(E) and US Steel 224.

## ENGRENAGE ISO 220

**JOHNSON ENGRENAGE ISO 220** is high performance extreme pressure gear oils developed for lubrication of heavy duty industrial gears working under severe operating conditions. These are blended from high quality base stocks and sulphur-phosphorous type extreme pressure additive system that gives excellent load carrying capability to provide protection against shock loading and wear. The high thermooxidative stability of the oil helps resist high temperature deposit formation and oil thickening. In addition, these oils also possess excellent water separation characteristics and offer resistance to foaming.

**ISO: 220**

### Meet & Exceed

- DIN 51517/ Part 3 CLP
- MAN ENERGY SOLUTIONS
- AIST 224
- ISO-L-CKD
- AGMA 9005-E02-EP 1.53.101
- ISO 12925-1 CKD
- MAG IAS

## ENGRENAGE ISO 320

**JOHNSON ENGRENAGE ISO 320** is a fully formulated anti-wear, readily biodegradable, environmentally friendly, ecologically responsive, non-toxic fluid designed for high pressure industrial, marine, construction and mobile hydraulic systems, turbines and circulating oil systems that are operated in environmentally sensitive areas. Fully synthetic esters, blended with ashless additives, with a superior blend of lubrication performance.

**ISO: 320**

### Meet & Exceed

- DIN 51517/ Part 3 CLP
- MAN ENERGY SOLUTIONS
- AIST 224
- ISO-L-CKD
- AGMA 9005-E02-EP 1.53.101
- ISO 12925-1 CKD
- MAG IAS

## ENGRENAGE ISO 460

**JOHNSON ENGRENAGE ISO 460** is a synthetic biodegradable hydraulic oil featured by outstanding viscosimetric performances and good low temperature behaviour, thus offering a very wide range of operating temperatures. Suitable for any hydraulic system requiring a lubricant with good anti-wear properties, high viscosity index and improved thermal and oxidation stability giving an increased service life of the fluid.

**ISO: 460**

### Meet & Exceed

- DIN 51517/ Part 3 CLP
- MAN ENERGY SOLUTIONS
- AIST 224
- ISO-L-CKD
- AGMA 9005-E02-EP 1.53.101
- ISO 12925-1 CKD
- MAG IAS

## ENGRENAGE ISO 680

**JOHNSON ENGRENAGE ISO 680** is a high performance gear lubricant formulated with high performance base oils and an advanced additive system. Its ability to lubricate elements subjected to boundary lubrication (metal/metal contact) and its excellent water separation capacity in the event of pollution, make this lubricant ideal for working in all marine gear subjected to extreme lubrication conditions. Meets the requirements for API GL4 and GL5 performance categories and corresponds to SAE 80W-90 viscosity grade. For outboard and inboard transmissions subject to a normal to high load.

**ISO: 680**

### Meet & Exceed

- DIN 51517/ Part 3 CLP
- MAN ENERGY SOLUTIONS
- AIST 224
- ISO-L-CKD
- AGMA 9005-E02-EP 1.53.101
- ISO 12925-1 CKD
- MAG IAS

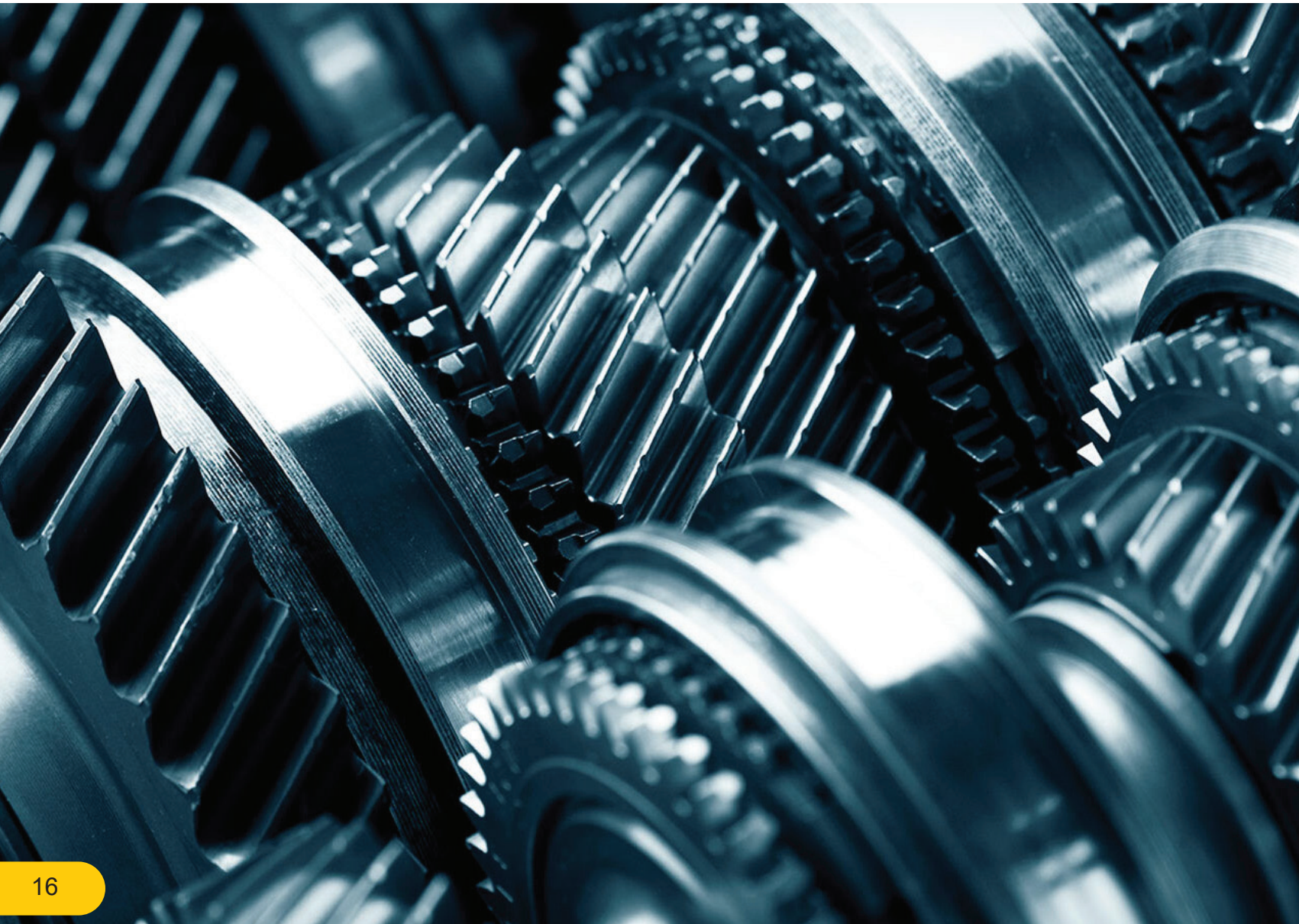
## ENGRENAGE ISO 1000

**JOHNSON ENGRENAGE ISO 1000** is a high performance gear lubricant formulated with high performance base oils and an advanced additive system. PAO and ester-based synthetic lubricant for gears running under very severe load and temperature conditions. Its protection against micropitting failure is particularly noteworthy. Meets the requirements for API GL4 and GL5 performance categories and corresponds to SAE 80W-90 viscosity grade. For outboard and inboard transmissions subject to a normal to high load.

**ISO: 1000**

### Meet & Exceed

- DIN 51517/ Part 3 CLP
- MAN ENERGY SOLUTIONS
- AIST 224
- ISO-L-CKD
- AGMA 9005-E02-EP 1.53.101
- ISO 12925-1 CKD
- MAG IAS





# Stern Tubes

Very specific marine environment application for which Johnson has developed its own lubricating oils, incorporating a unique additivation capable of emulsifying water entering the system in the event of leakage, maintaining adequate equipment lubrication.

## ARRIÈRE 150

**ARRIÈRE** is a high performance, high viscosity lubricant developed especially for the lubrication of Cedervall-type stern tube bearings used in ships and for certain bearings of ships' fin stabilizers, formulated from relatively high Viscosity Index (VI) base oils combined with emulsifiers, structure modifiers, surface active agents and corrosion preventives. It provides effective rust protection in the presence of seawater and the lubricating film is resistant to water washing so that corrosion protection is maintained for extended periods under severe operating conditions.

ISO: 150

### Meet & Exceed

- Blohm & Voss (Simplex)
- Wärtsilä Propulsion

## ARRIÈRE BIO 220

**ARRIÈRE BIO** is synthetic biodegradable lubricant for stern tubes. Particularly recommended for stern tube sliding rolling bearings, minimising environmental impact in the event of spillage. Wide range of working temperatures. Excellent anti-wear and anti-corrosion properties. Compatible with main seals: Viton, Nitrile NBR and Bioseal.

ISO: 220

### Meet & Exceed

- Ecolabel
- EAL for VGP
- Blohm & Voss (Simplex)
- Wärtsilä Propulsion

## ARRIÈRE HT BIO 100

**ARRIÈRE BIO 100** is Biodegradable ester-based oil specifically developed to comply with KEMEL manufacturer quality standards. **ARRIÈRE BIO 100** features excellent anti-wear properties and good performance at low temperatures, offering a very wide range of working temperatures. Excellent anti-corrosive properties and compatible with most seals.

ISO: 100

### Meet & Exceed

- ISO 15380: HEES
- EAL for VGP
- KEMEL all types and sizes of seals
- Kamome Propeller



# TURBINES

This is a range of oils obtained from selected paraffinic bases, improved with oxidation, rust and foam inhibitor additives, offering excellent properties and outstanding operational performance. Multifunctional lubricant oil for circulatory systems that include highly revolutionary mechanisms, in their lower viscosities, hydraulic or steam turbines in grades between ISO 32 and ISO 100 and for lubrication of various types of mechanical equipment in casing or by circulation in higher viscosities.

## VORTEX 32

**JOHNSON VORTEX 32** oils are formulated for superior protection against oxidation, sludge, and varnish. By combining quality base oils with highly effective additives, we've created some of the highest-performing turbine oils in the industry. Some of the most significant changes include improved RPVOT retention, water separation, varnish and sludge protection, rust and corrosion reduction, and foam and entrained air release.

**ISO: 32**

### Meet & Exceed

- DIN 51515 Part 1 L-TD
- DIN 8659 Part 2
- DIN 51517 Part 2, CL
- ISO 3498 (1986) CKB
- DIN 51506 VBL & VCL
- ISO 6743 Part 3 DAA
- Complies with quality level: ABB, Siemens, AEG, Westinghouse, Alstom, Sulzer, GE, KKK

## VORTEX 46

**JOHNSON VORTEX 46** are premium performance, anti-wear type turbine oil formulated from premium base oils, highly refined group II base stocks and unique additive package minimizing the formation of deposits in reservoirs, high temperature bearings and other hot areas of the turbine. an as h-less anti-wear additive system, rust, oxidation and foam inhibitors. Designed primarily for use in industrial gas and steam turbines including those with reduction gear sets.

**ISO: 46**

### Meet & Exceed

- DIN 51515 Part 1 L-TD
- DIN 8659 Part 2
- DIN 51517 Part 2, CL
- ISO 3498 (1986) CKB
- DIN 51506 VBL & VCL
- ISO 6743 Part 3 DAA
- Complies with quality level: ABB, Siemens, AEG, Westinghouse, Alstom, Sulzer, GE, KKK

## VORTEX 68

**JOHNSON VORTEX 68** is highly refined base stocks and multi-component oxidation inhibitor system resist the formation of harmful sludge and varnish deposits. The rust inhibitor protects components against corrosion. Good water separability of the highly refined base stocks and inhibitor system ensure rapid settling of harmful water accumulated from steam condensate, non-silicone foam inhibitor allows rapid release of entrained air while minimizing foam formation, enabling reliable operation of sensitive hydraulic control devices

**ISO: 68**

### Meet & Exceed

- DIN 51515 Part 1 L-TD
- DIN 8659 Part 2
- DIN 51517 Part 2, CL
- ISO 3498 (1986) CKB
- DIN 51506 VBL & VCL
- ISO 6743 Part 3 DAA
- Complies with quality level: ABB, Siemens, AEG, Westinghouse, Alstom, Sulzer, GE, KKK

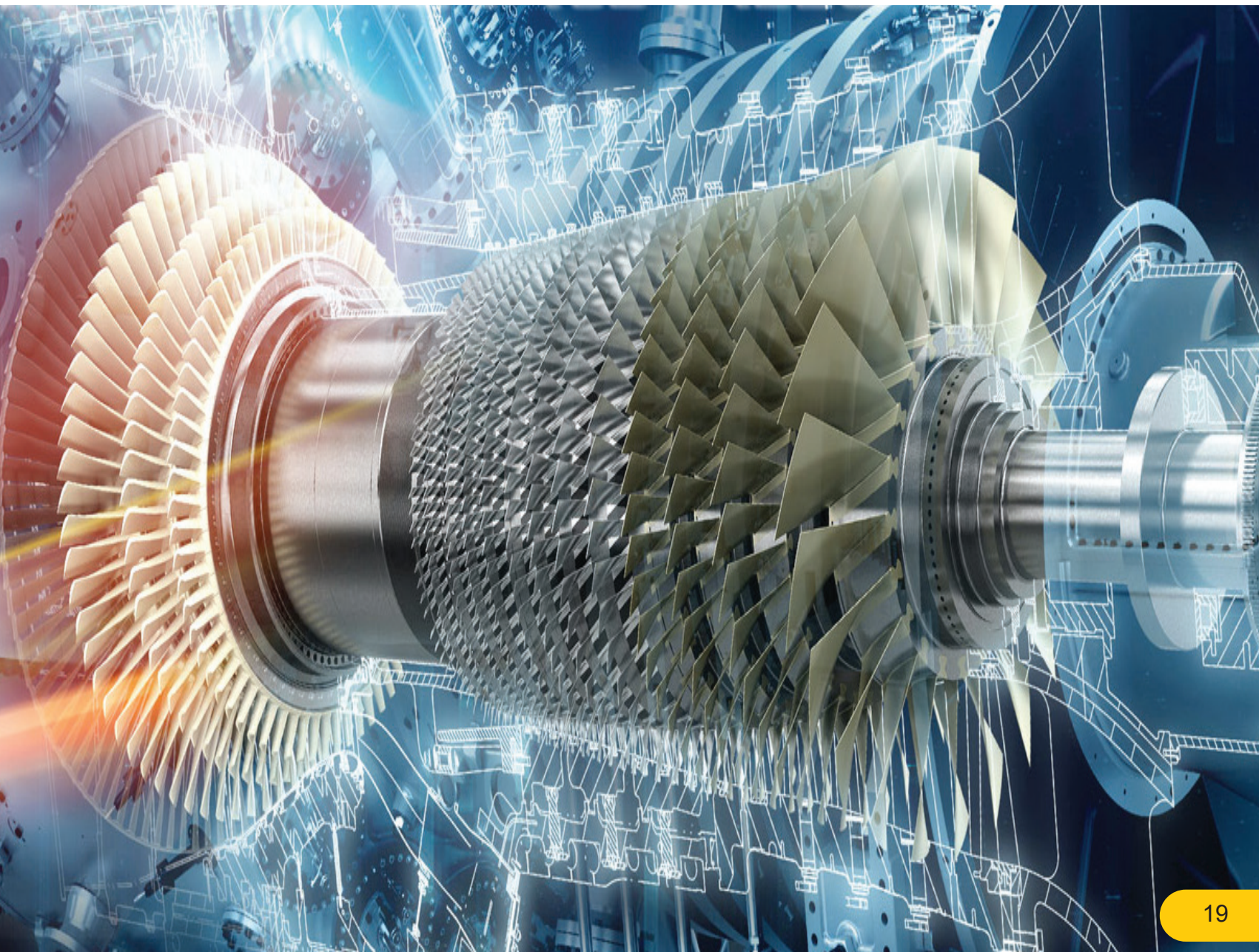
## **VORTEX 100**

**JOHNSON VORTEX 100** is developed to offer improved performance capable of meeting the demands of the most modern steam turbine systems and light duty gas turbines, which require enhanced anti-wear performance for the gearbox. Formulated with an anti-foam additive, which generally controls foam formation. **JOHNSON VORTEX 100** prevents the formation of rust and guards against onset of corrosion ensuring protection for equipment following exposure to humidity or water during operation and during shut-downs, minimizing maintenance.

**ISO: 100**

### **Meet & Exceed**

- DIN 51515 Part 1 L-TD
- DIN 8659 Part 2
- DIN 51517 Part 2, CL
- ISO 3498 (1986) CKB
- DIN 51506 VBL & VCL
- ISO 6743 Part 3 DAA
- Complies with quality level:  
ABB, Siemens, AEG,  
Westinghouse, Alstom,  
Sulzer, GE, KKK



# COMPRESSOR

For equipment requiring enhanced lubricant antioxidant properties due to the high temperatures reached in lubrication circuits, Repsol has a wide range of oils made with hydrogenated bases for turbines and next generation turbochargers. Designed to protect equipment from corrosion and wear and minimise the build-up of deposits and the formation of varnishes, guaranteeing a long oil and lubricated equipment lifespan.

## COMPRESSEUR S 100

**JOHNSON COMPRESSEUR HVLP 150** is a synthetic lubricant based on esthers specifically formulated for cylinders of reciprocating air compressors. Allows to prolong the oil charge life and is also suitable for lubrication of compressor bearings

ISO: 150

### Meet & Exceed

- DIN 51506-VDL
- ISO L-DAB
- ISO L-DAJ

## COMPRESSEUR M 68

**JOHNSON COMPRESSEUR HVLP 68** is a marine mineral oil with specific high performance additives designed to lubricate screw and reciprocating air compressors. It allows real cuts in the operating costs of the compressed air production facility by optimizing the compressor efficiency. The range of this product has an anti-clogging property that ensures the efficiency of the filters during a long period, thus extending the service life of the separating filter elements.

ISO: 68

### Meet & Exceed

- DIN 51506-VDL & VCL
- ISO 6743 DAA DAG

## COMPRESSEUR M 100

**JOHNSON COMPRESSEUR HVLP 100** is a marine mineral oil with specific high performance additives designed to lubricate screw and reciprocating air compressors. Formulated with premium base oils and a unique additive system that provide excellent thermal and oxidation stability, high viscosity index, high flash point, low pour point, and excellent hydrolytic stability.

ISO: 100

### Meet & Exceed

- DIN 51506-VDL & VCL
- Complies with quality levels:  
Dresser-Rand, Neuenhauser, Sauer & Sohn, Sulzer, Tabane, etc.
- ISO 6743 DAB DAG

## COMPRESSEUR M 150

**JOHNSON COMPRESSEUR HVLP 150** is a marine mineral oil with specific high performance additives designed to lubricate screw and reciprocating air compressors. Designed and formulated to be use in conditions where the discharge temperature does not exceed 100°C, otherwise, the use of synthetic oils is preferred.

ISO: 150

### Meet & Exceed

- ISO 6743 DAH DAJ
- Screw Compressors: Sauer & Sohn, Tamrotor
- Turbochargers: ABB

# REFRIGERATION COMPRESSOR

We have a wide range of Repsol products to lubricate all types of refrigeration compressors, whichever type of refrigerant gas and equipment working conditions. Many refrigerant gases are used for cold generation. The key for selecting the correct lubricant is to know the interactions between the gas and the lubricant chemistry used, so that they may be compatible but immiscible to always maintain correct lubricant viscosity that ensures the machine protection.

## RÉFRIGÉRATION 32

**JOHNSON RÉFRIGÉRATION 32** is a premium quality synthetic compressor lubricant made from alkylbenzenes, which are highly miscible with hydrochlorofluorocarbon (R22). This allows them to be used in very low temperature applications, down to -60°C. In certain circumstances, they can also be used in compressors where ammonia acts as the refrigerating fluid.

ISO: 32

### Meet & Exceed

- DIN 51503 KAA
- ISO 6743-3B-DRA

## RÉFRIGÉRATION 46

**JOHNSON RÉFRIGÉRATION 46** is a synthetic lubricant for refrigerating compressors, particularly recommended for hermetic type compressors (domestic fridges), open-type or partially sealed industrial units and heat pump systems that operate with standard refrigerating fluids (R-12, R-22, ammonia). It can prevent solidification of particles within the expansion circuit, due to a low flocculation and pour point.

ISO: 46

### Meet & Exceed

- ISO L-DRA-DRB
- Bock
- Bitzer
- Grasso

## RÉFRIGÉRATION 68

**JOHNSON RÉFRIGÉRATION 68** is a synthetic refrigeration lubricant based on alkylated benzenes with a polyol ester base fluid. It has excellent high temperature and oxidation stability, this product provides extended service life even where high compression discharge temperatures occur. It can be used with a full spectrum of refrigerants (with the exception of HFCs).

ISO: 68

### Meet & Exceed

- DIN 51503 KD
- ISO 6743-3B-DRD

## RÉFRIGÉRATION 100

**JOHNSON RÉFRIGÉRATION 100** is made from ultra-low wax naphthenic oils, and is intended primarily for cooling compressors in which a non-inhibited lubricant is needed. Particularly recommended for hermetic type compressors (domestic fridges), open-type or partially sealed industrial units and heat pump systems that operate with standard refrigerating fluids (R-12, R-22, ammonia).

ISO: 100

### Meet & Exceed

- Bock
- Howden
- Grasso
- York

# HEAT TRANSFER

Within its heat transfer oil range, JOHNSON has mineral and synthetic oils to cover the whole working temperature range.

They have a good heat transfer coefficient, low discharge loss and can lengthen the service life preventing the formation of deposits and the increase of viscosity.

## CHALEUR HTO

**JOHNSON CHALEUR HTO** Fluid specially formulated for use as a heat transfer agent. It is formulated from highly refined mineral bases with specific additivation that gives it extraordinary resistance to oxidation, minimises the formation of varnishes and prevents oil cracking at working temperatures.

It is a specific oil for use in closed-circuit and forced-circulation heat transfer systems in which maximum working temperatures reach approximately 300 °C.

### Meet & Exceed

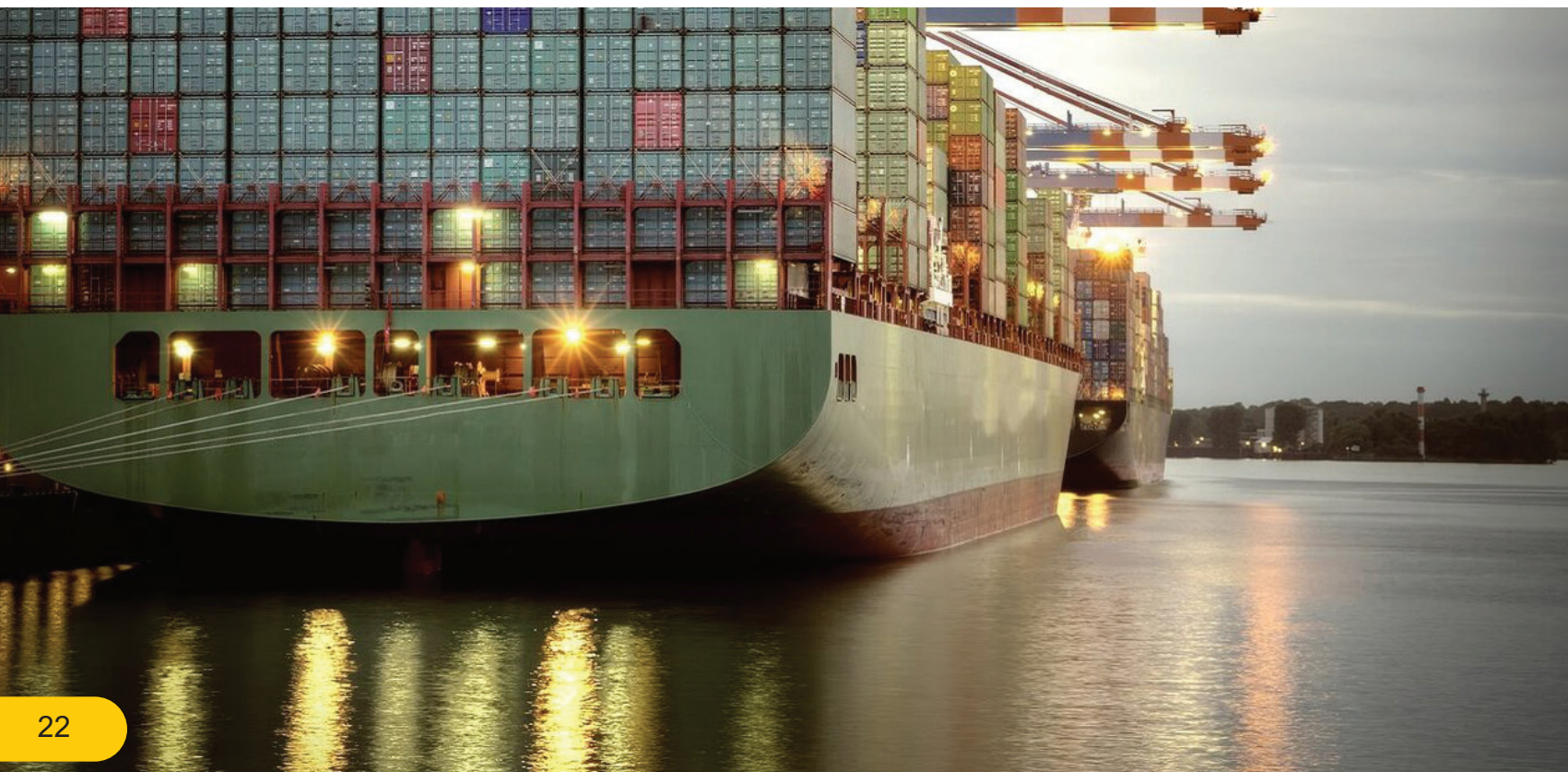
- ISO 6743/12-QB
- DIN 51522-Q

## CHALEUR TS

**JOHNSON CHALEUR TS** is a Synthetic fluid especially formulated for use in closed-circuit forced-circulation heat transfer systems, where the working temperature is around 315°C. Its specific additivation gives it extraordinary resistance to oxidation. Its main features are great thermal stability, low vapour pressure and long service life with regard to mineral lubricant oils, giving it great temperature control in these processes.

### Meet & Exceed

- ISO 6743/12-QC



# GREASES

Aimed at completing our lubrication portfolio to cover all on-board machinery requirements. The highest quality standards applied by JOHNSON guarantee the most suitable lubrication in all types of applications and working conditions, not only in the lubricant but also in the grease. The wide range of thickeners used by JOHNSON and its knowledge of all the formulation variables to adapt the grease benefits to the working environments ensure the proper performance of all our greases in marine environments.

## GRAISSE CS

**JOHNSON GRAISSE CS** is an extreme-pressure water resistant high temperature calcium sulfonate complex marine grease, with excellent thermal and mechanical stability features. It adapted for a wide range of temperatures and remarkable load resistance thanks to its naturally high extreme pressure and anti-wear properties.

**NLGI: 2**

### Meet & Exceed

- ISO 6743-9: L-XBDIB 0
- DIN 51 502: OGP0N -20

## GRAISSE CSC

**JOHNSON GRAISSE CSC** is an extreme-pressure water resistant high temperature calcium sulfonate complex marine grease. It is suitable in centralized greasing systems for the lubrication of all kinds of components where the grease is in frequent contact with water or sea water due to enhanced antirust performances.

**NLGI: 2**

### Meet & Exceed

- ISO 6743-9: L-XBFIB 1/2
- DIN 51 502: KP1/2R -30

## GRAISSE CSC-WR

**JOHNSON GRAISSE CSC-WR** is an extreme-pressure water resistant high temperature calcium sulfonate complex marine grease. It is suitable in centralized greasing systems for the lubrication of all kinds of components where the grease is in frequent contact with water or sea water due to enhanced antirust performances.

**NLGI: 2**

### Meet & Exceed

- ISO 6743-9: L-XBFIB 1/2
- DIN 51 502: KP1/2R -30

## GRAISSE LC 0

**JOHNSON GRAISSE LC 0** is an extreme pressure lithium/calcium marine grease, with very high load carrying capacity and anti-wear properties.

This high performance grease assures a low coefficient of friction, good water resistance and excellent protection against rust and corrosion.

**NLGI: 0**

## **GRAISSE EP 1**

**JOHNSON GRAISSE EP 1** is an extreme pressure lithium/calcium marine grease, with very high load carrying capacity and anti-wear properties.

This high performance grease assures a low coefficient of friction, good water resistance and excellent protection against rust and corrosion.

**NLGI: 1**

## **GRAISSE EP 2**

**JOHNSON GRAISSE EP 2** is an extreme pressure lithium/calcium marine grease, with very high load carrying capacity and anti-wear properties.

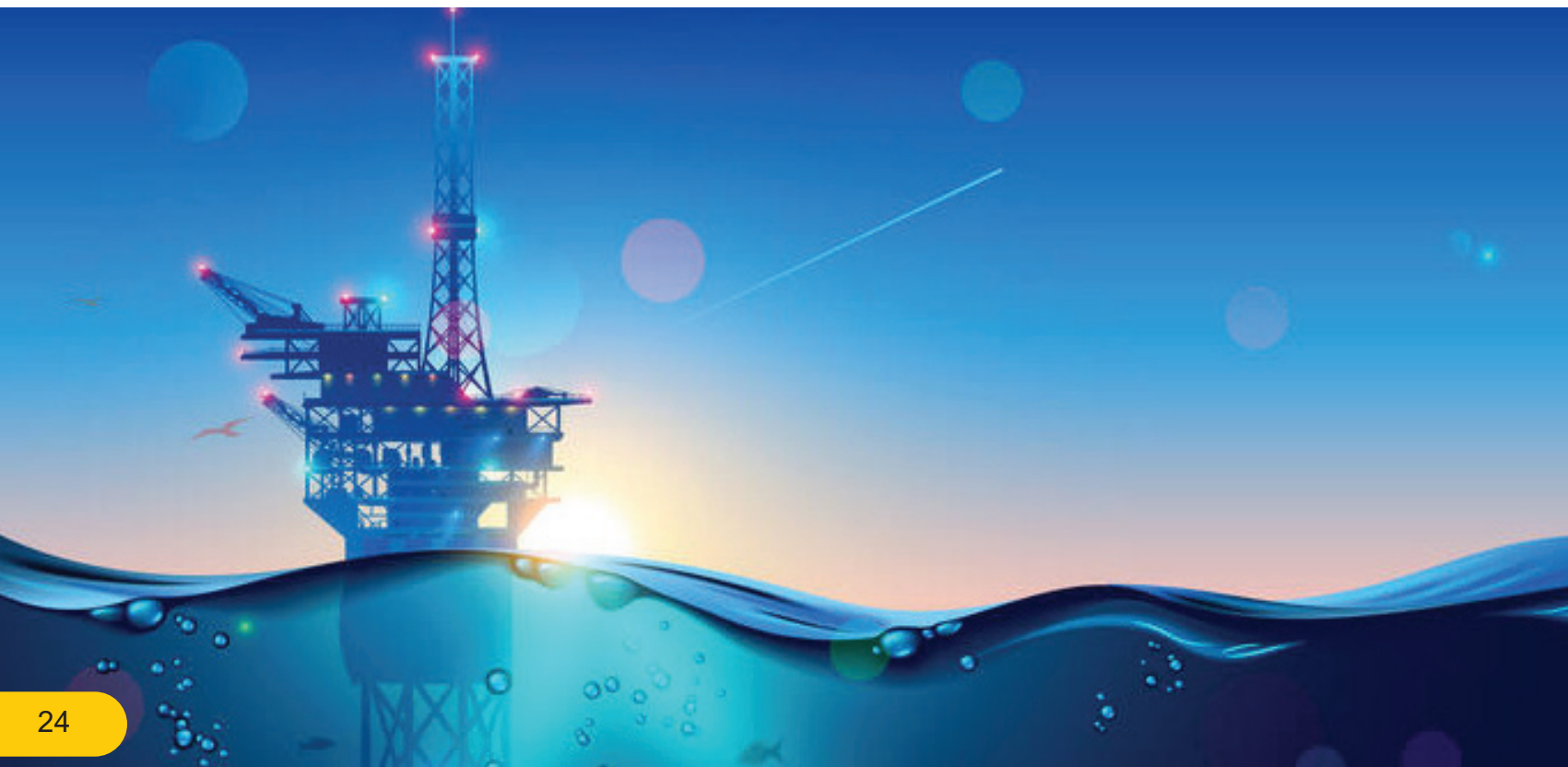
This high performance grease assures a low coefficient of friction, good water resistance and excellent protection against rust and corrosion.

**NLGI: 2**


## **GRAISSE MDS 2**

**JOHNSON GRAISSE MDS 2** is an extreme pressure lithium/calcium grease with molybdenum disulfide, with very high load carrying capacity and anti-wear properties. Recommended for long intervals greasing without any change of its properties or characteristics. Its operating temperature ranges within minus 25°C to 130°C. This high performance grease assures a low coefficient of friction, good water resistance and excellent protection against rust and corrosion.

**NLGI: 2**







***PLEASURE  
SPEED BOAT***

# 2 STROKE PETROL ENGINE

## 2T TC

**JOHNSON 2T TC** is high performance 2-stroke engine oil for use in 2T marine applications with excellent additive system to provide good overall cleaning and performance. It provides maximum film strength and anti-wear characteristics for main and big end bearings, gudgeon pins, rings and bores.

SAE Grade: 20      NMMA TC

### Meet & Exceed

- NMMA TC
- API TC
- JASO FC

## 2T TCW

**JOHNSON 2T TC** is semi-synthetic lubricant oil, especially formulated to meet the demands of two-stroke water-cooled marine outboard motors, in accordance with the NMMA TC-WII specification, therefore guaranteeing excellent protection against corrosion and rust in the marine environment.

SAE Grade: 30      API TCW

### Meet & Exceed

- NMMA TC
- API TC
- JASO FC

## 2T TCW2

**JOHNSON 2T TCW2** Universal lubricant designed for the lubrication of cylinders in engines (prior to 2008) running on high sulphur fuel content between 0.5% and 3.5%. Its patented formula allows you to protect the engine for a longer period of time than with conventional higher TBN-content oils.

SAE Grade: 10W-30      API TCWII

### Meet & Exceed

- NMMA TC-WIII

## 2T TCW3

**JOHNSON 2T TCW3** Cylinder oil formulated for the lubrication of 2-stroke slow-speed crosshead diesel engines, ensuring engine protection when running on high sulphur fuel oil, extending engine overhaul shutdowns.

SAE Grade: 10W-30 API TCWIII

### Meet & Exceed

- NMMA TC-WIII



# 4 STROKE PETROL ENGINE

## 4T 25W40

**JOHNSON 4T 25W40** Marine Engine Oil SAE 25W-40 is designed with synthetic base oil to improve wear protection and increase catalyst life in newer inboards using catalytic converters. Meets or exceeds NMMA FC-W (CAT) performance. It can be used in automotive applications where API SM oils are called out for. Also have applications in 4-stroke outboards and 4-stroke personal watercraft

**SAE Grade: 25W-40 API SL**

### Meet & Exceed

- NMMA FC-W
- API SL

## 4T 10W40

**JOHNSON 4T 10W40** is a Fully Synthetic multi-grade marine trunk piston engine lubricant for highly rated High speed 4-Stroke diesel engines (like marine life boat, emergency power unit, fire pumps, etc. It is designed to meet the most severe conditions and high speed engines with high temperatures.

**SAE Grade: 10W-40 API SN**

### Meet & Exceed

- ACEA C2-16 • MB 229.31
- ACEA C3-16 • MB 229.52
- VW 505 01 • VW 505 00
- BMW LONGLIFE-04
- FIAT 9.55535-S3
- GM DEXOS 2
- OPEL/VAUXHALL OV0401547

## 4T 5W30

**JOHNSON 4T 5W30** is a fully synthetic high-performance high-lubricity engine oil for petrol engines for marine use, which are subjected to heavy loads. Formulated with G-III base oil oils and a high proportion of fully synthetic additives also provide a reliable margin in reserve, even under the toughest operating conditions.

**SAE Grade: 5W-30 API SN**

### Meet & Exceed

- ACEA C2-16 • MB 229.31
- ACEA C3-16 • MB 229.52
- VW 505 01 • VW 505 00
- BMW LONGLIFE-04
- FIAT 9.55535-S3
- GM DEXOS 2
- OPEL/VAUXHALL OV0401547





### **HATCHES**

- HYDRAULIQUE HVLP 68
- ENGRENAGE GL-5 80W90
- GRAISSE CS
- HYDRAULIQUE BIO TMP
- ENGRENAGE 150 1000
- GRAISSE MDS 2



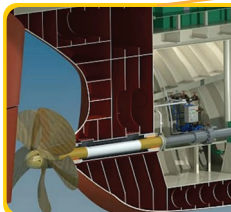
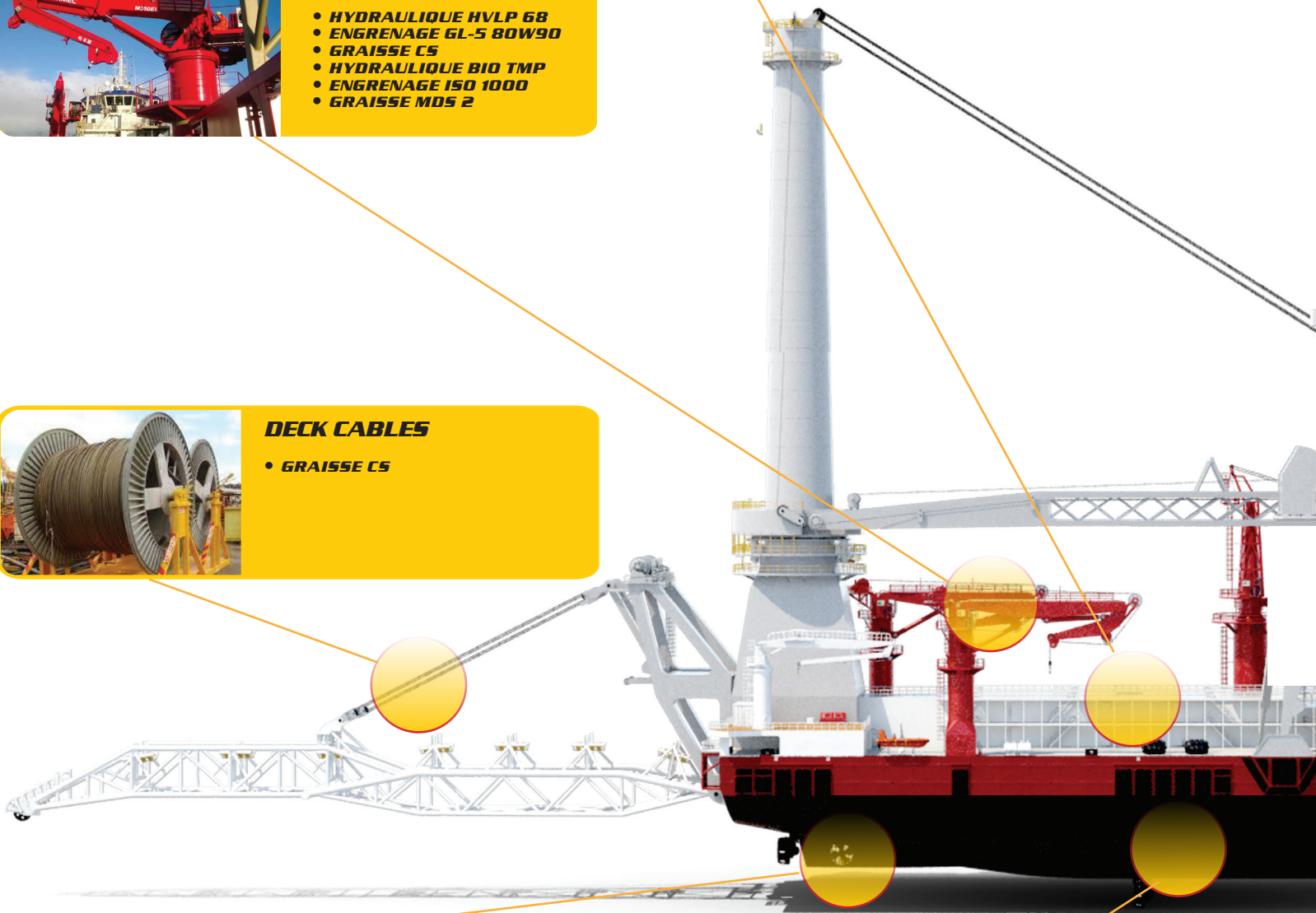
### **DECK CRANES**

- HYDRAULIQUE HVLP 68
- ENGRENAGE GL-5 80W90
- GRAISSE CS
- HYDRAULIQUE BIO TMP
- ENGRENAGE 150 1000
- GRAISSE MDS 2



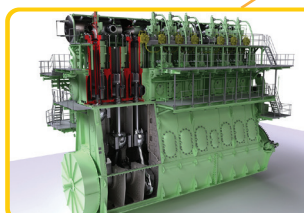
### **DECK CABLES**

- GRAISSE CS



### **STERN TUBE AND TAIL SHAFT**

- ARRIÈRE BIO 220
- ARRIÈRE HT BIO 100
- ARRIÈRE 150



### **MAIN ENGINE**

- VITESSE LENTE 50-25
- VITESSE LENTE 50-70



### THERMAL BOILERS

- CHALEUR HTL



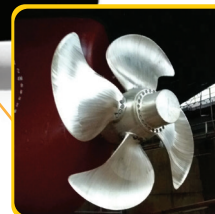
### LIFEBOAT

- GRAISSE CSC
- GRAISSE C5
- HYDRAULIQUE HVLP 68
- ENGRENAGE 6L-5 80W90
- HYDRAULIQUE BIO TMP
- ENGRENAGE 150 1000
- GRANDE 15W40-10



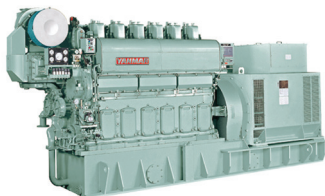
### MOORING MACHINERY

- GRAISSE CSC
- GRAISSE C5
- HYDRAULIQUE HVLP 68
- ENGRENAGE 6L-5 80W90
- HYDRAULIQUE BIO TMP
- ENGRENAGE 150 1000
- GRAISSE MDS 2



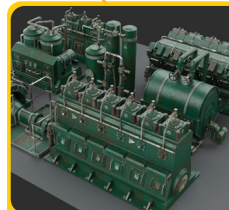
### PROPELLERS

- HYDRAULIQUE HVLP 68
- HYDRAULIQUE BIO TMP



### AUXILIARY ENGINE

- GRANDE 15W40-10



### ENGINE ROOM

#### PUMPS/ TURBOPUMPS

- COMPRESSEUR HVLP 68
- COMPRESSEUR HVLP 100
- COMPRESSEUR HVLP 150

#### WASTEWATER TREATMENT SYSTEM

- HYDRAULIQUE HVLP 68
- ENGRENAGE 6L-5 80W90
- COMPRESSEUR HVLP 100
- COMPRESSEUR HVLP 150

#### AIR COMPRESSOR

- COMPRESSEUR HVLP 100
- COMPRESSEUR HVLP 150

#### TURBOCHARGERS

- COMPRESSEUR HVLP 150

#### REFRIGERATION COMPRESSOR

- RÉFRIGÉRATION 32
- RÉFRIGÉRATION 46
- RÉFRIGÉRATION 68
- RÉFRIGÉRATION 100

**JOHNSON<sup>®</sup>**



**Bio**

**ECO FRIENDLY  
LUBRICANT OIL**

## BIODEGRADABLE LUBRICANTS

Use of Biodegradable Lubricants, Bio-lubes, Green Oils or Environmentally Considerate Lubricants (ECLs) is becoming a common contract requirement in lubricant applications where environmental sensitivity is an issue, particularly where access to groundwater, rivers, streams and lakes is a risk.

Many biodegradable lubricants are made from natural vegetable oils such as rapeseed or sunflower seed oils. The condition of these products needs to be monitored in use as their service life can vary and may be significantly reduced compared to mineral oils, depending on the type and application.



# HYDRAULIQUE BIO 68



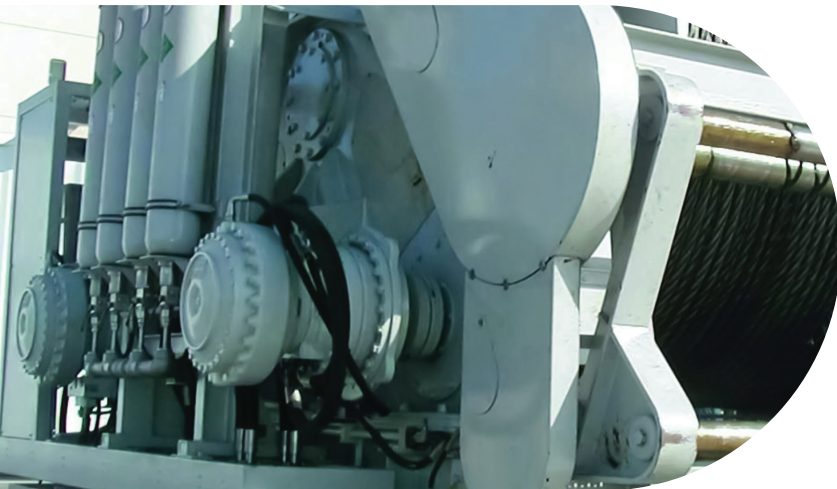
## HYDRAULIQUE BIO 68

**JOHNSON HYDRAULIQUE BIO 68** is a fully formulated anti-wear, readily biodegradable, environmentally friendly, ecologically responsive, non-toxic fluid designed for high pressure industrial, marine, construction and mobile hydraulic systems, turbines and circulating oil systems that are operated in environmentally sensitive areas. Natural esters, blended with ash less additives, with a superior blend of lubrication performance.

**ISO: 68**

### Meet & Exceed

- ISO 6743/4 (HEES)
- ISO 15380 (HEES)
- DIN 51524/3 (HV)\*
- Biodegradability  
OECD 301-B
- Biotelex Ecolabel  
46 & 68



# HYDRAULIQUE BIOTMP

## HYDRAULIQUE BIO TMP

**JOHNSON HYDRAULIQUE BIO TMP** is a synthetic biodegradable hydraulic oil featured by outstanding viscosimetric performances and good low temperature behaviour, thus offering a very wide range of operating temperatures. Suitable for any hydraulic system requiring a lubricant with good anti-wear properties, high viscosity index and improved thermal and oxidation stability giving an increased service life of the fluid.

**ISO: 68**

### Meet & Exceed

- ISO 15380 (HEES)
- EAL according  
to VGP
- Meets Swedish Standard  
SS155434
- VDMA 24568: HEES
- ROLLS-ROYCE





# ARRIÈRE BIO220

## ARRIÈRE BIO 220

**ARRIÈRE BIO** is synthetic biodegradable lubricant for stern tubes. Particularly recommended for stern tube sliding rolling bearings, minimising environmental impact in the event of spillage. Wide range of working temperatures. Excellent anti-wear and anti-corrosion properties. Compatible with main seals: Viton, Nitrile NBR and Bioseal.

### Meet & Exceed

- Ecolabel
- EAL for VGP
- Blohm & Voss (Simplex)
- Wärtsilä Propulsion

ISO: 220

# ARRIÈRE HT BIO100



## ARRIÈRE HT BIO 100

**ARRIÈRE BIO 100** is Biodegradable ester-based oil specifically developed to comply with KEMEL manufacturer quality standards. **ARRIÈRE BIO 100** features excellent anti-wear properties and good performance at low temperatures, offering a very wide range of working temperatures. Excellent anti-corrosive properties and compatible with most seals.

### Meet & Exceed

- ISO 15380: HEES
- EAL for VGP
- KEMEL all types and sizes of seals
- Kamome Propeller

ISO: 100

# BIO220

## Gear Oil



### BIO 220 Gear Oil

**JOHNSON BIO 220 GEAR OIL** is high protection against corrosion, also with sea water pollution, providing lubrication advantages at high and low temperatures compared to mineral oils. It is suitable for propulsion systems (although it is not an emulsifying oil), provided equipment manufacturer requirements are met.

**ISO Grade: 220**

#### Meet & Exceed

- DIN 51517
- Part 3 CLP
- ISO 12925-1 CKC/CKD
- EA for 2013 VGP
- ZF Propulsion
- Wärtsilä HHI Thrusters
- Scania



# PACKAGING

<b>SLOW-SPEED ENGINES</b>						
<b>PRODUCTS</b>	<b>BULK</b>	<b>IBC 1000L</b>	<b>Drum 208L</b>	<b>Container 20L</b>	<b>Container 5L</b>	<b>Container 1L</b>
<i>VITESSE LENTE 50-25</i>			●	●		
<i>VITESSE LENTE 50-40</i>			●	●		
<i>VITESSE LENTE UNIVERSAL 50-57</i>			●	●		
<i>VITESSE LENTE 50-70</i>			●	●		
<i>VITESSE LENTE 50-100</i>			●	●		
<i>VITESSE LENTE UNIVERSAL 50-100</i>			●	●		
<i>VITESSE LENTE 50-140</i>			●	●		
<i>SYSTÈME 30-5</i>			●	●		
<i>SYSTÈME 40-5</i>			●	●		
<b>MEDIUM-SPEED ENGINES</b>						
<i>MOYENNE 30-15</i>			●	●		
<i>MOYENNE 30-20</i>			●	●		
<i>MOYENNE 30-30</i>			●	●		
<i>MOYENNE 30-40</i>			●	●		
<i>MOYENNE 40-15</i>			●	●		
<i>MOYENNE 40-20</i>			●	●		
<i>MOYENNE 40-30</i>			●	●		
<i>MOYENNE 40-40</i>			●	●		
<i>MOYENNE 40-55</i>			●	●		
<b>HIGH-SPEED ENGINES</b>						
<i>GRANDE 15W40-10</i>			●	●	●	●
<i>GRANDE 30-12</i>			●	●	●	●
<i>GRANDE 40-12</i>			●	●	●	●
<i>GRANDE 40-20</i>			●	●	●	●
<i>SPÉCIALE SA40-N13</i>			●	●	●	●
<i>SPÉCIALE SA40-N7.8</i>			●	●	●	●

<b>HYDRAULIC</b>						
<b>PRODUCTS</b>	<b>BULK</b>	<b>IBC 1000L</b>	<b>Drum 208L</b>	<b>Container 20L</b>	<b>Container 5L</b>	<b>Container 1L</b>
<b>HYDRAULIQUE HVLP 68</b>			●	●		
<b>HYDRAULIQUE HVLP 100</b>			●	●		
<b>HYDRAULIQUE BIO 68</b>			●	●		
<b>HYDRAULIQUE BIO TMP</b>			●	●		
<b>GEARS</b>						
<b>ENGRENAGE GL-5 80W90</b>			●	●		
<b>ENGRENAGE GL-4 80W90</b>			●	●		
<b>ENGRENAGE GL-4 85W140</b>			●	●		
<b>ENGRENAGE GL-5 85W140</b>			●	●		
<b>ENGRENAGE GL-5 75W80</b>			●	●		
<b>ENGRENAGE GL-5 75W90</b>			●	●		
<b>ENGRENAGE ISO 100</b>			●	●		
<b>ENGRENAGE ISO 220</b>			●	●		
<b>ENGRENAGE ISO 320</b>			●	●		
<b>ENGRENAGE ISO 460</b>			●	●		



**STERN TUBES**

PRODUCTS	BULK	IBC 1000L	Drum 208L	Container 20L	Container 5L	Container 1L
<b>ARRIÈRE 150</b>	●	●	●	●	●	●
<b>ARRIÈRE BIO 220</b>	●	●	●	●	●	●
<b>ARRIÈRE HT BIO 100</b>	●	●	●	●	●	●

**COMPRESSORS**

<b>COMPRESSEUR HVLP 68</b>	●	●	●	●	●	●
<b>COMPRESSEUR HVLP 100</b>	●	●	●	●	●	●
<b>COMPRESSEUR 100</b>	●	●	●	●	●	●
<b>COMPRESSEUR HVLP 150</b>	●	●	●	●	●	●

**REFRIGERATION COMPRESSORS**

<b>RÉFRIGÉRATION 32</b>	●	●	●	●	●	●
<b>RÉFRIGÉRATION 46</b>	●	●	●	●	●	●
<b>RÉFRIGÉRATION 68</b>	●	●	●	●	●	●
<b>RÉFRIGÉRATION 100</b>	●	●	●	●	●	●



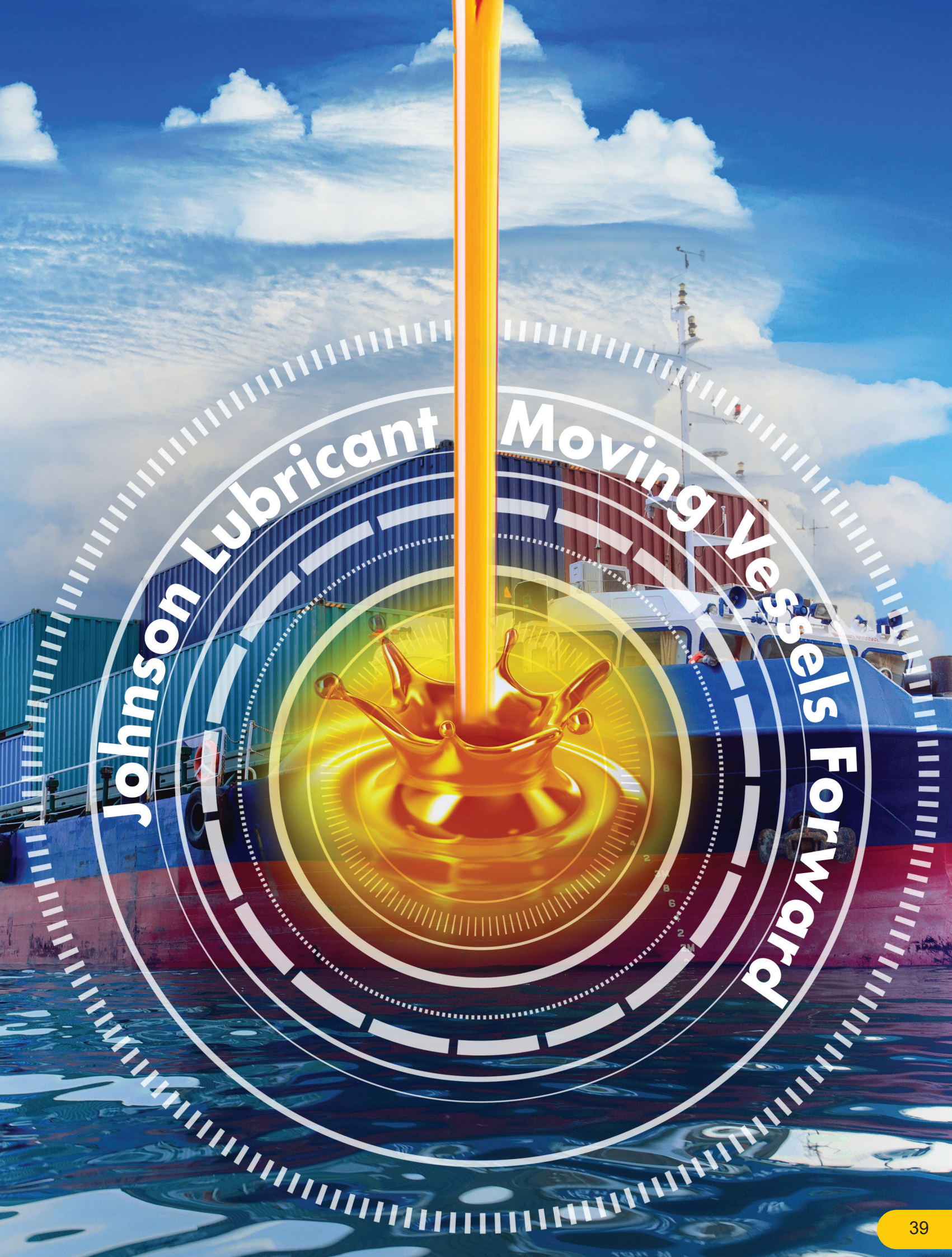
PRODUCTS	BULK	IBC 1000L	Drum 208L	Container 20L	Container 5L	Container 1L
<b>HEAT TRANSFER</b>						
<b>CHALEUR HTO</b>			●	●	●	●
<b>CHALEUR TS</b>			●	●	●	●

PRODUCTS	DRUM 180 KG	BUCKET 180 KG	BUCKET 5 KG	BUCKET 1 KG	BUCKET 500 KG	BUCKET 250 KG
<b>GREASES</b>						
<b>GRAISSE CS</b>	●	●	●	●	●	●
<b>GRAISSE CSC</b>	●	●	●	●	●	●
<b>GRAISSE CSC-WR</b>	●	●	●	●	●	●
<b>GRAISSE LC 0</b>	●	●	●	●	●	●
<b>GRAISSE EP 1</b>	●	●	●	●	●	●
<b>GRAISSE EP 2</b>	●	●	●	●	●	●
<b>GRAISSE MDS 2</b>	●	●	●	●	●	●

PRODUCTS	BULK	IBC 1000L	Drum 208L	Container 20L	Container 5L	Container 1L
<b>4T 4 STROKE ENGINE OIL</b>						
<b>4T 25W40</b>	●	●	●	●	●	●
<b>4T 10W40</b>	●	●	●	●	●	●
<b>4T 5W30</b>	●	●	●	●	●	●

PRODUCTS	BULK	IBC 1000L	Drum 208L	Container 20L	Container 5L	Container 1L
<b>2T 2 STROKE ENGINE OIL</b>						
<b>2T TC</b>	●	●	●	●	●	●
<b>2T TCW</b>	●	●	●	●	●	●
<b>2T TCW2</b>	●	●	●	●	●	●
<b>2T TCW3</b>	●	●	●	●	●	●





Johnson Lubricant

Moving Vessels Forward



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