



moving things forward

PREMIUM LUBRICANT OIL
CEMENT MINING
INDUSTRY

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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.

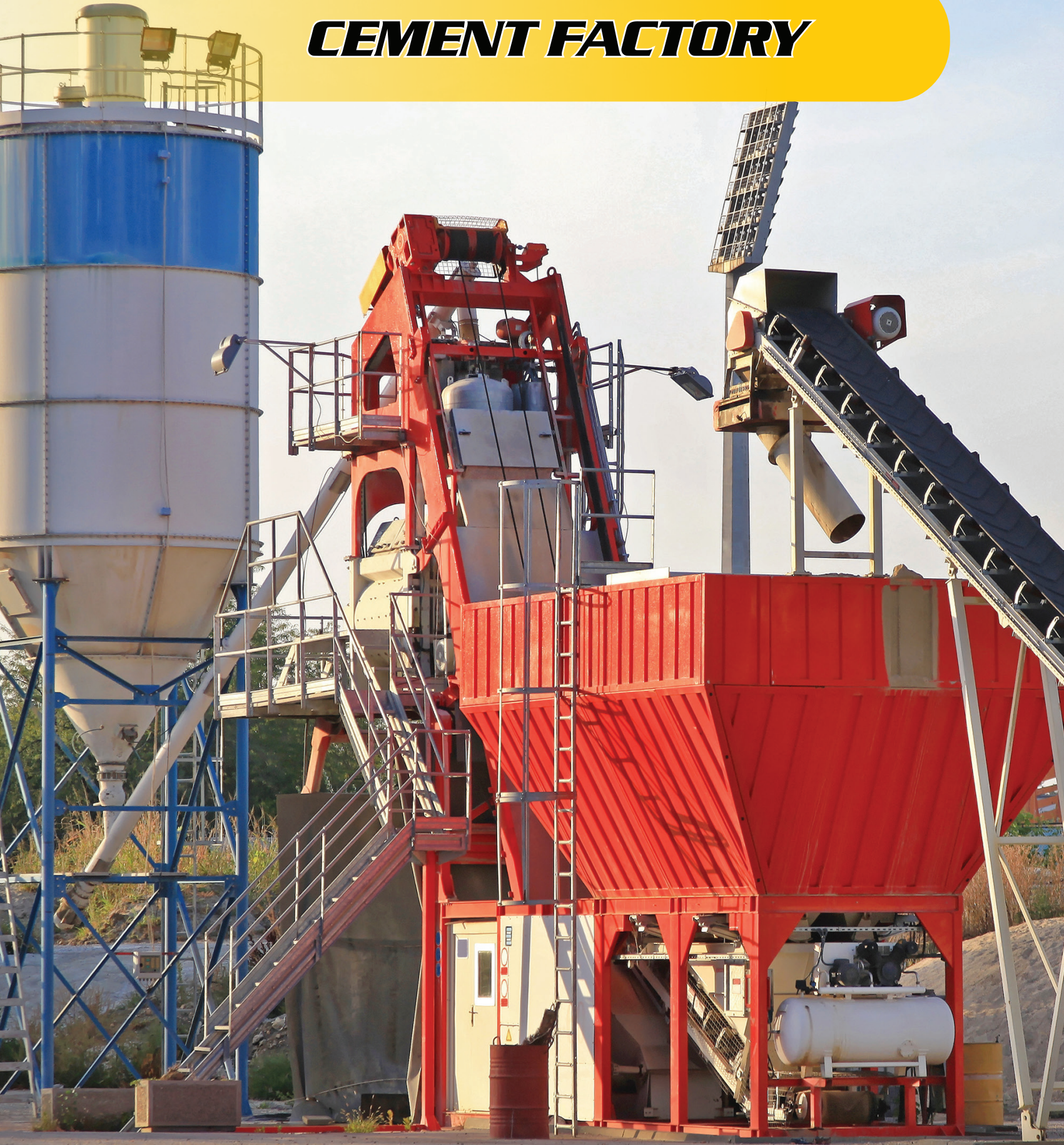
JOHNSON Lubricants, with their extensive experience in this type of applications, have demonstrated their high performance and response capacity, ensuring customers full equipment availability.

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:

CEMENT FACTORY



EXCAVATION & TRACTORS



ENGINE OILS

RIGOR UHPD 10W-40

JOHNSON RIGOR UHPD High-quality UHPD (Ultra High Performance Diesel) synthetic technology lubricating oil. Its name (mid SAPS) highlights its reduced ash content, which prevents the obstruction of systems that include particle filters, as well as protecting catalytic after-treatment systems and minimising polluting emissions. Its excellent composition makes it a long-life lubricant with extraordinarily long periods between oil changes. It is compatible with all kinds of fuels (diesel, LPG, CNG and biodiesel) and its characteristics make it the ideal oil for mixed fleets. It is valid for Euro 6 engines and older.

API: CI-4

SAE Grade: 10W-40

Meet & Exceed

- ACEA E6/E4/E7, MTU Type 3.1
- MACK EO-N
- API CI-4
- JASO DH-2
- VOLVO VDS-3/CNG
- CAT ECF-1-a
- MB 228.51/235.27
- SCANIA LOW ASH
- MAN 3477/3271-1
- DAF EXTENDED DRAIN

RIGOR HD 10W-40

JOHNSON RIGOR HD State-of-the-art synthetic lubricating oil particularly recommended for supercharged diesel engines of commercial vehicles with extraordinarily long periods between oil changes. Product specifically designed for low-emission Euro 5 diesel engines and some Euro 6 engines.

API: CI-4

SAE Grade: 10W-40

Meet & Exceed

- API CI-4
- ACEA E4/E7
- VOLVO VDS-3
MAN M3277/M3377
- MB 228.5
- RENAULT VI RLD-2/ RXD
- MACK EO-N, MTU Type 3
- DEUTZ DQC IV-10.

RIGOR HD PLUS 15W-40

JOHNSON RIGOR HD PLUS 15W-40 High-quality synthetic technology lubricating oil. Its name underlines its suitability for turbocharged engines and its low ash content (mid SAPS), which prevents the obstruction of systems that include particle filters, as well as protecting catalytic after-treatment systems and minimising polluting emissions. It is compatible with diesel and biodiesel and without doubt plays a fundamental role in the lubrication of mixed fleet engines. It is valid for Euro 5 engines and older.

API: CI-4+

SAE Grade: 15W-40

Meet & Exceed

- API CJ-4/CI-4/CI-4 PLUS/SM
- ACEA E7/E9
- MB 228.31
- VOLVO VDS-4
- RENAULT RLD-3
- MTU TYPE 2.1
- CAT ECF-3 & ECF-2 & ECF-1-A
- MACK EO-O PREMIUM PLUS
- CUMMINS CES 20081
- DETROIT DIESEL DDC 93K218
- MAN 3575

RIGOR THPD 15W-40

JOHNSON RIGOR THPD 15W-40 THPD (Top High Performance Diesel) lubricating oil which optimises the performance of the most demanding latest-generation heavy-duty diesel engines. It has been specifically designed for engines requiring lubricants which meet the ACEA E7 and API CI-4 quality standard, and its viscosity and composition means that the periods between oil changes can be extended, always according to the manufacturer's recommendations. Its modern formulation gives it magnificent anti-wear properties, protecting the turbocharger in particular. It is compatible with biodiesel and systems equipped with an EGR valve and SCR catalytic converters and is valid for Euro 5 engines and older.

API: CH-4/SL

SAE Grade: 15W40

Meet & Exceed

- API CI-4/CH-4/SL
- ACEA E7/E5
- MB 228.3
- VOLVO VDS-3
- RENAULT RLD-2
- EO-N, CAT ECF-2 & ECF-1-a
- DETROIT DIESEL DDC 93K215
- CUMMINS CES
20076/20077/20078
- DETROIT DIESEL DDC 93K218
- MAN 3275-1.

ENGINE OILS

RIGOR 40

JOHNSON RIGOR 40 is Monograde lubricating oil produced from highly-refined bases. It includes especially selected additives which improve aspects such as its resistance to rust and anti-wear properties, as well as giving it a high level of detergent/ dispersant power. Its composition makes it suitable for turbo-charged or naturally aspirated diesel engines working in severe conditions. This oil is particularly suitable for the lubrication of Detroit Diesel two-stroke engines. It can also be used in transmissions and torque converters.

API: CF-2/SJ

SAE Grade: 40

Meet & Exceed

- API CF-2/CF/SJ, Special Detroit Diesel Series 149



HYDRAULIC



HYDRAULIC OILS

HYDRIC HVLP

JOHNSON HYDRIC HVLP is Hydraulic oil for use in hydraulic circuits subjected to different changes of temperature, weather or very low operating temperatures. It is also very suitable for hydraulic systems used in marine applications.

ISO Grade: 14, 22, 32, 46, 68

Meet & Exceed

- ISO 6743/4 HV
- DIN 51524 HVLP. MAG IAS P-68, P-69, P-80
- EATON 35VQ25
- AFNOR NF E 48603 HV
- AFNOR NF E 48690/48691

HYDRIC HLP

JOHNSON RIGOR HD is State-of-the-art synthetic lubricating oil particularly recommended for supercharged diesel engines of commercial vehicles with extraordinarily long periods between oil changes. Product specifically designed for low-emission Euro 5 diesel engines and some Euro 6 engines.

ISO Grade: 5, 10, 15, 22, 32, 46, 68

Meet & Exceed

- ISO 6743/4 HM
- DIN 51524 HLP. MAG IAS P-68, P-69, P-80
- PARKER DENISON HF-0, H-1, HF-1
- EATON 35VQ25
- AFNOR NF E 48603 HL
- HM AFNOR NF E 48690/48691.

HYDRIC HM

JOHNSON HYDRIC HM is General purpose hydraulic oil with high resistance to rust and ageing, anti-wear protection, good anti-foaming properties and excellent water separation.

ISO Grade: 22, 32, 46, 68, 100, 150

Meet & Exceed

- ISO 6743/4 HM
- DIN 51524 HLP.

HYDRIC HL

JOHNSON HYDRIC HL is Multifunctional lubricating oil for applications such as highly-revved mechanisms, at its lower viscosities, hydraulic or steam turbines in grades between ISO32 and ISO100, and for the lubrication of diverse mechanisms in the crankcase or by circulation at its higher viscosities.

ISO Grade: ISO 7, 15, 22, 32, 46, 68, 100, 150, 220

Meet & Exceed

- ISO 6743/4 HV
- DIN 51524 HVLP.
- AFNOR NF E 48603 HV MAG IAS P-68, P-69, P-80.



JOHNSON[®] ECO FRIENDLY LUBRICANT OIL



Bio

BIODEGRADABLE OILS

BIO HYDRIC

JOHNSON HYDRIC HVLP is synthetic biodegradable hydraulic fluid designed to replace conventional oils where there is a need or interest in using a biodegradable fluid. The product is Ecolabel certified.

ISO Grade: 46, 68

Meet & Exceed

- ISO 6743/4 HEES
- DIN 51524 HVLP (exc. ageing resistance). Biodegradable according to OECD 301-B, ECO-LABEL certified

ENHANCE SAFETY

HYDRIC HFC

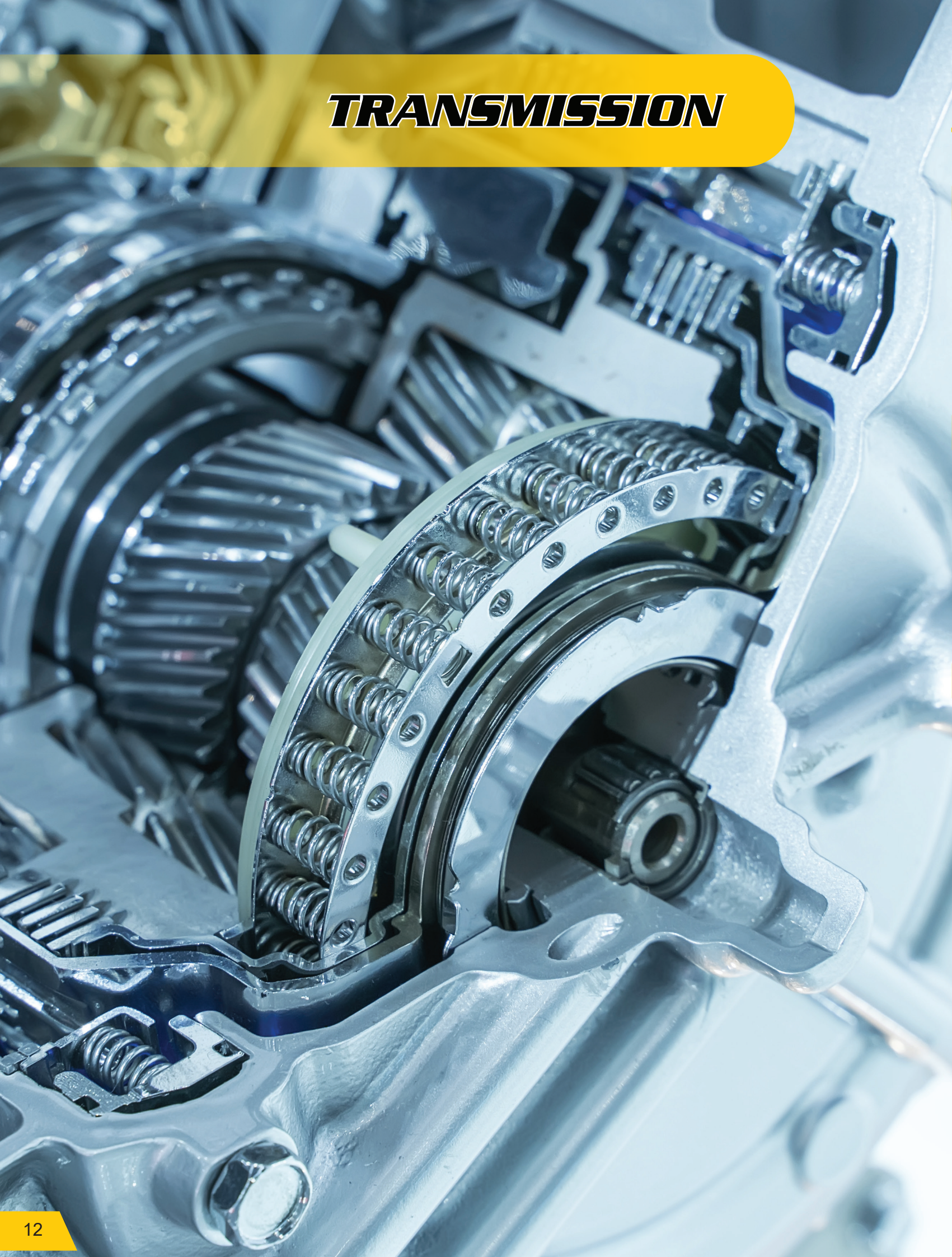
JOHNSON HYDRIC HFC is a fire-resistant hydraulic fluid (HFC) based on a mixture of water and glycol. For use in hydraulic systems which, due to their characteristics or their location, are at risk of catching fire, and where the fluid does not exceed a temperature of 60°C.

ISO Grade: 32, 46

Meet & Exceed

- ISO 6743/4 HFC
- ISO 12922 HFC. 7TH LUXEMBOURG REPORT

TRANSMISSION



TRANSMISSION OILS

TRANS 60

JOHNSON TRANS 60 Transmission Oil which is particularly recommended for axles and final drives of CATERPILLAR machinery which require the use of oil without friction modifiers and meet the CAT FD-1 specification (FDAO: Final Drive Axle Oil). This oil significantly improves the performance and the useful life of machinery in comparison with those that comply with the CAT TO-4 standard.

SAE: 60

Meet & Exceed

- CATERPILLAR FD-1.C

TRANS 50

JOHNSON TRANS 50 Lubricating oil especially formulated to meet the requirements of the CATERPILLAR, ALLISON and KOMATSU specifications, applicable in servo transmissions, clutches and brakes, as well as in final drives, crown wheels and differentials (according to SAE grade).

SAE: 50

Meet & Exceed

- CATERPILLAR TO-4
- ALLISON C-4 (SAE 10W y 30)
- KOMATSU KES 07.868.1

TRANS 30

JOHNSON TRANS 30 Lubricating oil for public works machinery, especially formulated to meet the requirements of the CATERPILLAR, ALLISON and KOMATSU specifications, applicable in servo transmissions, clutches and brakes, as well as in final drives, hydraulic systems, crown wheels and differentials (according to SAE grade).

SAE: 30

Meet & Exceed

- CAT TO-4 (10W)
- ALLISON C-4 (10W)
- KOMATSU KES 07.868.1 (10W)
- CAT TO-4 (30)
- ALLISON C-4 (30)
- KOMATSU KES 07.868.1 (30)
- CAT TO-4 (50)
- KOMATSU KES 07.868.1 (50).

TRANS 10

JOHNSON TRANS 10 Lubricating oil for public works machinery, especially formulated to meet the requirements of the CATERPILLAR, ALLISON and KOMATSU specifications, applicable in servo transmissions, clutches and brakes, as well as in final drives, hydraulic systems, crown wheels and differentials (according to SAE grade).

SAE: 10W

Meet & Exceed

- CAT TO-4 (10W)
- ALLISON C-4 (10W)
- KOMATSU KES 07.868.1 (10W)
- CAT TO-4 (30)
- ALLISON C-4 (30)
- KOMATSU KES 07.868.1 (30)
- CAT TO-4 (50)
- KOMATSU KES 07.868.1 (50).

TRANSMISSION OILS

TRANS 10W

JOHNSON TRANS 10W High-quality monograde mineral lubricant produced with highly-refined bases, to which especially selected additives are added to improve aspects such as its resistance to rust, anti-wear and detergent/dispersant power, thereby ensuring that it has a long service life. It can be used as a hydraulic fluid in public works machinery, as well as in transmissions for which the manufacturer recommends this grade of viscosity.

SAE: 10W

Meet & Exceed

- API CF/SF
- CATERPILLAR TO-2
- ALLISON C-3.

TRANS 10W

JOHNSON TRANS 10W High-quality monograde mineral lubricant produced with highly-refined bases, to which especially selected additives are added to improve aspects such as its resistance to rust, anti-wear and detergent/dispersant power, thereby ensuring that it has a long service life. It can be used as a hydraulic fluid in public works machinery, as well as in transmissions for which the manufacturer recommends this grade of viscosity.

API: CF/SF

SAE: 10W

Meet & Exceed

- API CF/SF, CATERPILLAR TO-2
- ALLISON C-3.

TRANS 10W-30

JOHNSON TRANS 10W-30 is Universal tractor transmission oil (UTTO) which is also appropriate for public works machinery. Its carefully-designed formulation makes it suitable for use in gearboxes, differential conical gears, power take-offs, hydraulic systems, wet brakes (sintered or compound) and clutches.

API: GL-4

SAE: 10W-30

Meet & Exceed

- FORD M2C 134D/CNH MAT 3525
- ALLISON C-4
- JOHN DEERE J-20C
- VOLVO WB 101, API GL-4/SAE 80W
- PARKER DENISON UTTO/THF
- CATERPILLAR TO-2
- MASSEY FERGUSON
- M-1145/M-1143.

TRANS 80W-90

JOHNSON TRANS 80-90 is Long-life oil for differentials and some manual gearboxes that require GL-5 quality. It is especially recommended for differentials of commercial and public works vehicles operating in severe conditions which require a high-performance lubricant. It complies with current manufacturers' regulations that require oils to have a drain interval which enables the period between oil changes to be doubled or tripled in comparison with conventional mineral oils.

API: GL-5

SAE: 80W-90

Meet & Exceed

- API GL-5/MT-1
- RENAULT Axle
- MB 235.20
- DAF API GL-5
- MAN 342 M3
- SAE J 2360
- VOLVO 97310
- SCANIA STO 1:0 for gearboxes
- ZF TE-ML 05A/07A/08/12E/16B/17B/19B/21A
- MACK GO-J, IVECO Axle
- ARVIN MERITOR O76-D.

TRANS 85W-140

JOHNSON TRANS 85W-140 is long-life oil for differentials and some manual gearboxes that require GL-5 quality. It is especially recommended for differentials of commercial and public works vehicles operating in severe conditions which require a high-performance lubricant. It complies with current manufacturers' regulations that require oils to have a drain interval which enables the period between oil changes to be doubled or tripled in comparison with conventional mineral oils.

API: GL-5

SAE Grade: 85W-140

Meet & Exceed

- API GL-5/MT-1
- DAF API GL-5
- VOLVO 97310
- SCANIA STO 1:0 for gearboxes
- MACK GO-J
- SCANIA STO 1:0 for differentials
- IVECO Axle
- ZF TE-ML 05A/07A/08/12E/16D/21A
- ARVIN MERITOR O76-A.

TRANS 80W-90

JOHNSON TRANS 80W-90 is extreme pressure multi-grade lubricating oil, used in vehicle differentials or transmission units and in manual gearboxes where API GL-5 oil is required. Its high load capacity makes it particularly suitable for hypoid differentials.

API: GL-5

SAE Grade: 80W-90

Meet & Exceed

- API GL-5 (80W90)
- MB 235.0 (80W90)
- MAN 342 M1 (80W90)
- VW 727 (80W90)
- RENAULT Axles (80W90)
- DAF API GL-5 (80W90)
- MIL-L-2105 D (80W90)
- ZF TE-ML 05A/07A/08/16B/16C/17B/19B/ 21A (80W90)
- API GL-5 (85W14 VOLVO 97310 (85W140)
- DAF API GL-5 (85W140)
- MIL-L-2105 D

TRANS 85W-140

JOHNSON TRANS 85W-140 is extreme pressure multi-grade lubricating oil, used in vehicle differentials or transmission units and in manual gearboxes where API GL-5 oil is required. Its high load capacity makes it particularly suitable for hypoid differentials.

API: GL-5

SAE Grade: 85W-140

Meet & Exceed

- API GL-5 (80W90)
- MB 235.0 (80W90)
- MAN 342 M1 (80W90)
- VW 727 (80W90)
- RENAULT Axles (80W90)
- DAF API GL-5 (80W90)
- MIL-L-2105 D (80W90)
- ZF TE-ML 05A/07A/08/16B/16C/17B/19B/ 21A (80W90)

TRANS 80W-90

JOHNSON TRANS 80W-90 is extreme pressure multi-grade lubricating oil, used in vehicle differentials or transmission units and in manual gearboxes where API GL-5 oil is required. Its high load capacity makes it particularly suitable for hypoid differentials.

API: GL-5

SAE Grade: 80W-90

Meet & Exceed

- API GL-5
- ZF TE-ML 05C/07A/08/12C/21C

INDUSTRIAL COMPRESSOR



COMPRESSOR OILS

VORTEX SYN 46

JOHNSON VORTEX SYN 46 is An ester-based synthetic lubricant recommended for the lubrication of reciprocating and rotary compressors operating in severe working conditions which require maximum oil service life.

ISO: 46, 68, 100

Meet & Exceed

- ISO 6743/3 DAB/DAJ/DGE/DVE
- DIN 51506 VDL.

VORTEX 68

JOHNSON VERTEX 68 Oil recommended for lubricating cylinders and mechanisms in rotary and reciprocating compressors, whether they are air or inert gas compressors, with high discharge temperatures.

ISO: 32, 46, 68, 100

Meet & Exceed

- ISO 6743/3 DAA/DAG
- DIN 51506 VDL.

VORTEX 32

JOHNSON VIGOR 220 lubricant is for all types of industrial gears which is suitable for all cases where high levels of resistance to rust and load capacity are required. Exceeds Flender requirements.

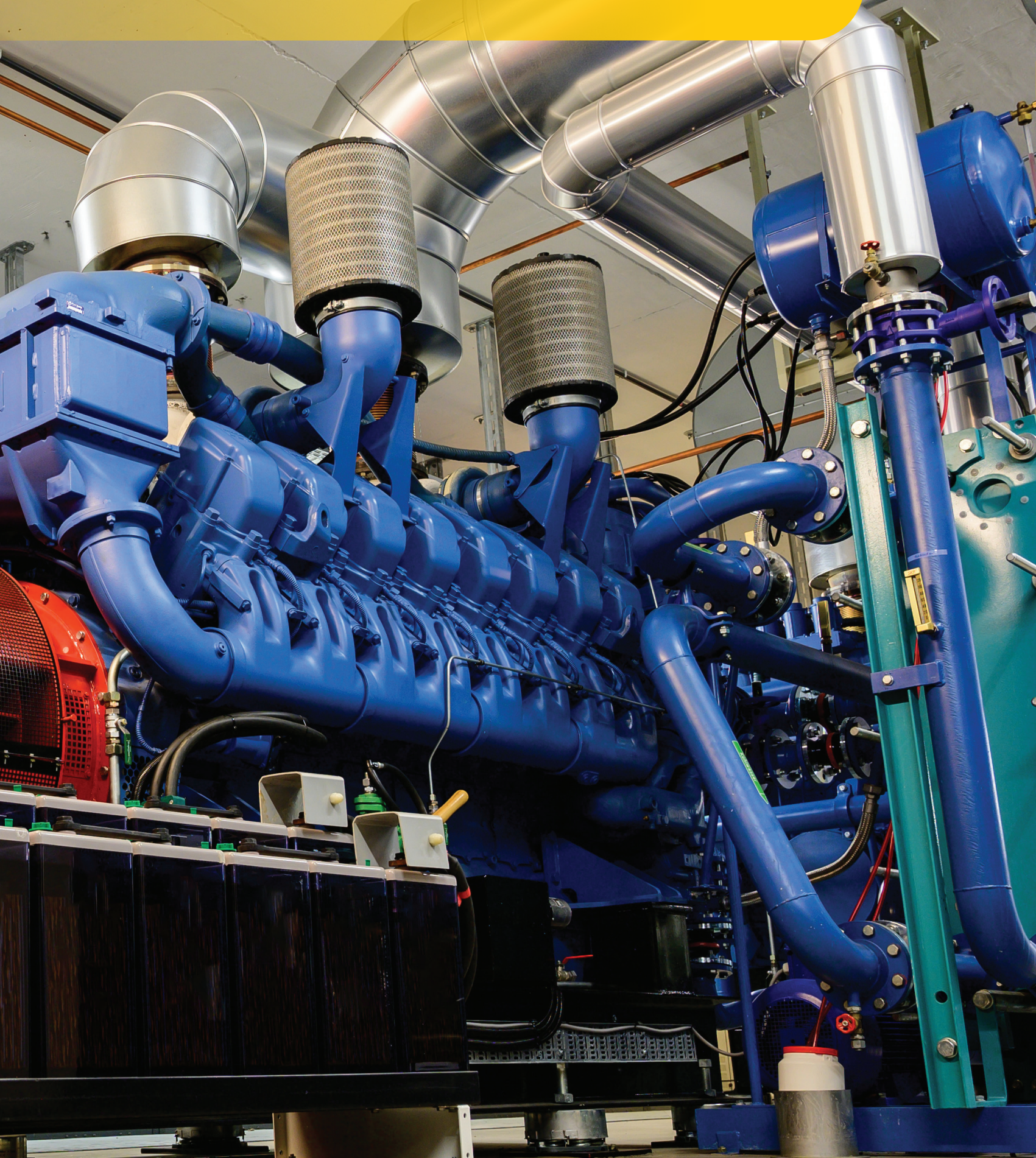
ISO: 32, 46, 68

Meet & Exceed

- ISO 6743/3 DAA/DAG
- DIN 51506 VCL



GAS ENGINE



GAS ENGINE OILS

CYCLONE LA 40

JOHNSON CYCLONE LA 40 is a very long-life lubricating oil which includes hydrogenated bases and the latest generation of additives, enabling the period between oil changes to be extended in comparison with traditional gas cogeneration-based mineral oils. Suitable for modern stationary gas motors that use natural gas as fuel and require the use of oil with a maximum ash content of 0.5%. Its well-balanced formulation enables it to withstand the rust and nitration present in these types of engines, which operate in severe conditions, much better than conventional lubricants. In applications where the gas used as fuel is biogas or any another type of gas, the useful life of the lubricant will depend on the level of contaminants in the gas.

SAE: 40

Meet & Exceed

- JENBACHER 1000-1109 (officially approved) • MWM DEUTZ (officially approved)
- ROLLS ROYCE BERGEN BV-G/ CR-G/ K-G1/ K-G2/K-G3 (officially approved)
- MAN Diesel & Turbo medium-speed engines (officially approved) • CUMMINS (officially approved) • MAN 3271-2 • WAUKESHA • CATERPILLAR • WÄRTSILÄ.

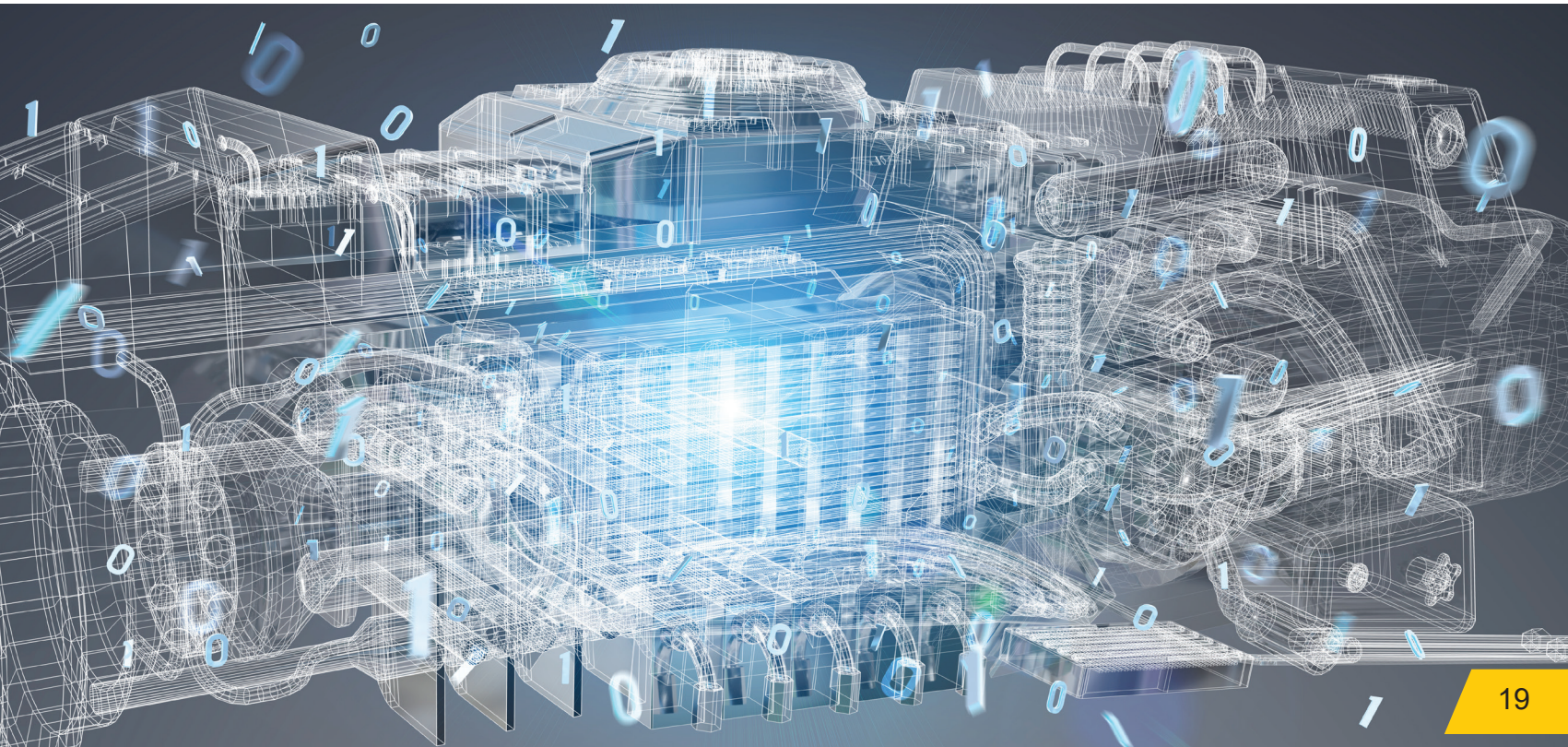
CYCLONE LA M40

JOHNSON CYCLONE LA M40 is a very long-life mineral lubricating oil which is particularly suitable for meeting the lubrication requirements of modern stationary gas motors that use natural gas as fuel. It contains a maximum ash content of 0.5%, minimizing the formation of deposits and guaranteeing maximum performance and operation time. It enables the periods between oil changes to be extended, thereby minimizing maintenance costs.

SAE: 40

Meet & Exceed

- JENBACHER 1000-1109 (officially approved)
- MWM DEUTZ (officially approved)
- ROLLS ROYCE BERGEN K-G1/K-G2/K-G3
- CATERPILLAR WÄRTSILÄ
- WAUKESHA
- GUASCOR.



PNEUMATIC TOOL OILS

PNEUMATIC 46

JOHNSON PNEUMATIC 46 is fluid for the lubrication of drills, hammers and pneumatic tools in severe working conditions, as well as pneumatic mechanisms which require a fluid with the capacity to capture water drops, ensuring that they do not come into contact with metal surfaces (demulsifying test values of 0-0-80 at 30 minutes).

ISO: 46, 100, 150



COOLANT ANTIFREEZES

COOLIN 50

JOHNSON COOLIN 50 is Ethylene glycol-based engine coolant formulated with fully organic inhibitors, ensuring that it provides excellent protection against corrosion in all metals, particularly aluminium and other light alloys present in engine cooling circuits. Although it can be used in all types of cooling circuits (aluminium, copper, cast iron) it is particularly recommended for high-pressure aluminium engines where protection at high temperatures is very important.

Meet & Exceed

- UNE 26-361-88
- ASTM03306/04985
- BS 6580:1992
- SAEJ1034J814YJ1941
- MB Approval 325.3
- Ford WSS-M97844-0
- General Motors GM 6277M
- Volkswagen VW 774 F
- MAN 324 Type SNF
- Deutz DQC CB-14
- Caterpillar A4.05.09.01
- DAF 74002
- Renault Trucks 41-01-001/- 5 Type 0
- Jenbacher.

GREASES

GREASE NLGI 0

JOHNSON GREASE NLGI 0 is for all types of bearings that withstand loads and vibrations (steel, rolling, mining, public works machinery), couplings, chains, guideways, shear bearings, rolling mills (chocks, bearings, brackets, etc.).

NLGI 0,1, 2, 3

GREASE NLGI 2

JOHNSON GREASE NLGI 0 is for all types of bearings that withstand loads and vibrations (steel, rolling, mining, public works machinery), couplings, chains, guideways, shear bearings, rolling mills (chocks, bearings, brackets, etc.).

NLGI 0,1, 2, 3

PACKAGING

ENGINE OILS						
PRODUCTS	BULK	IBC 1000L	DRUM 208 L	Container 20L	Container 4L	Container 1L
RIGOR UHPD 10W-40				●	●	●
RIGOR HD 10W-40				●	●	●
RIGOR HD PLUS 15W-40				●	●	●
RIGOR THPD 15W-40				●	●	●
RIGOR 40				●	●	●
HYDRAULIC OILS						
HYDRIC HVLP			●	●		
HYDRIC HLP			●	●		
HYDRIC HM			●	●		
HYDRIC HL			●	●		
BIODEGRADABLE HYDRAULIC OILS						
BIO HYDRIC			●	●		
HYDRIC HFC			●	●		
MTF TRANSMISSION OILS						
TRANS 60				●	●	●
TRANS 50				●	●	●
TRANS 30				●	●	●
TRANS 10W				●	●	●
TRANS 10W CF/SF				●	●	●
TRANS 10W-30 GL-4				●	●	●
TRANS 80W-90				●	●	●
TRANS 85W-140				●	●	●
TRANS 80W-90				●	●	●
TRANS 85W-140				●	●	●
TRANS 80W-90				●	●	●

COMPRESSOR OILS						
PRODUCTS	BULK	IBC 1000L	DRUM 208 L	Container 20L	Container 4L	Container 1L
VORTEX SYN 46				●	●	●
VORTEX 68				●	●	●
VORTEX 32				●	●	●
GAS ENGINE OILS						
CYCLONE LA 40				●	●	●
CYCLONE LA M40				●	●	●
PNEUMATIC TOLL OILS						
PNEUMATIC 46				●	●	●
COOLANT ANTIFREEZE						
COOLIN 50				●	●	●
GRASES FOR SPECIAL APPLICATION						
GREASE NLGI 00				●	●	●
GREASE NLGI GI 2				●	●	●





JOHNSON LUBRICANTS

P.O. Box : 52300, Hamariya Free Zone, Sharjah. UAE

Tel : +971 6 5 277 277

Email : info@johnsonlubricants.com | Web.: johnsonlubricants.com

