

*moving things forward*

**PREMIUM LUBRICANT OIL**  
**AVIATION**

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## **INTRODUCTION**

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When you choose Johnson Lubricants, you choose much more. Because, in addition to top-quality products, you get the Johnson guarantee. An integrated and global energy company operating in more than 90 countries, engaged in exploration, production, refining, distribution and marketing activities, providing the most efficient, responsible and innovative energy solutions for millions of people and businesses around the world.

And you also get maximum innovation. Because at Johnson we have a Technology Centre that is at the global forefront of the R&D&I world, where each and every product is being continuously improved by our engineers and researchers, in order to ensure their optimum technical and environmental efficiency and quality.

## **QUALITY ASSURANCE**

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Johnson Lubricants exceed the strictest standards and rules set by the sector. Our products have been tested in competition to ensure maximum efficiency. Innovate to advance is our philosophy. Therefore, we have improved our product range to offer the best protection for the most demanding engines in the market.

At Johnson we select the best refining processes in the manufacture of our own base lubricants. This, combined with the use of top-quality additivation, offers you products with specific formulations for each manufacturer taking care of your engine, and giving you extra assurance.

At Johnson we have a wide range of lubricants that meet the most demanding quality standards. Only in this way can we ensure your engines and equipment will be perfectly lubricated and protected, in order to enhance their functions, improve their performance, to save energy and extend their useful life.

## **SECTOR CHALLENGES**

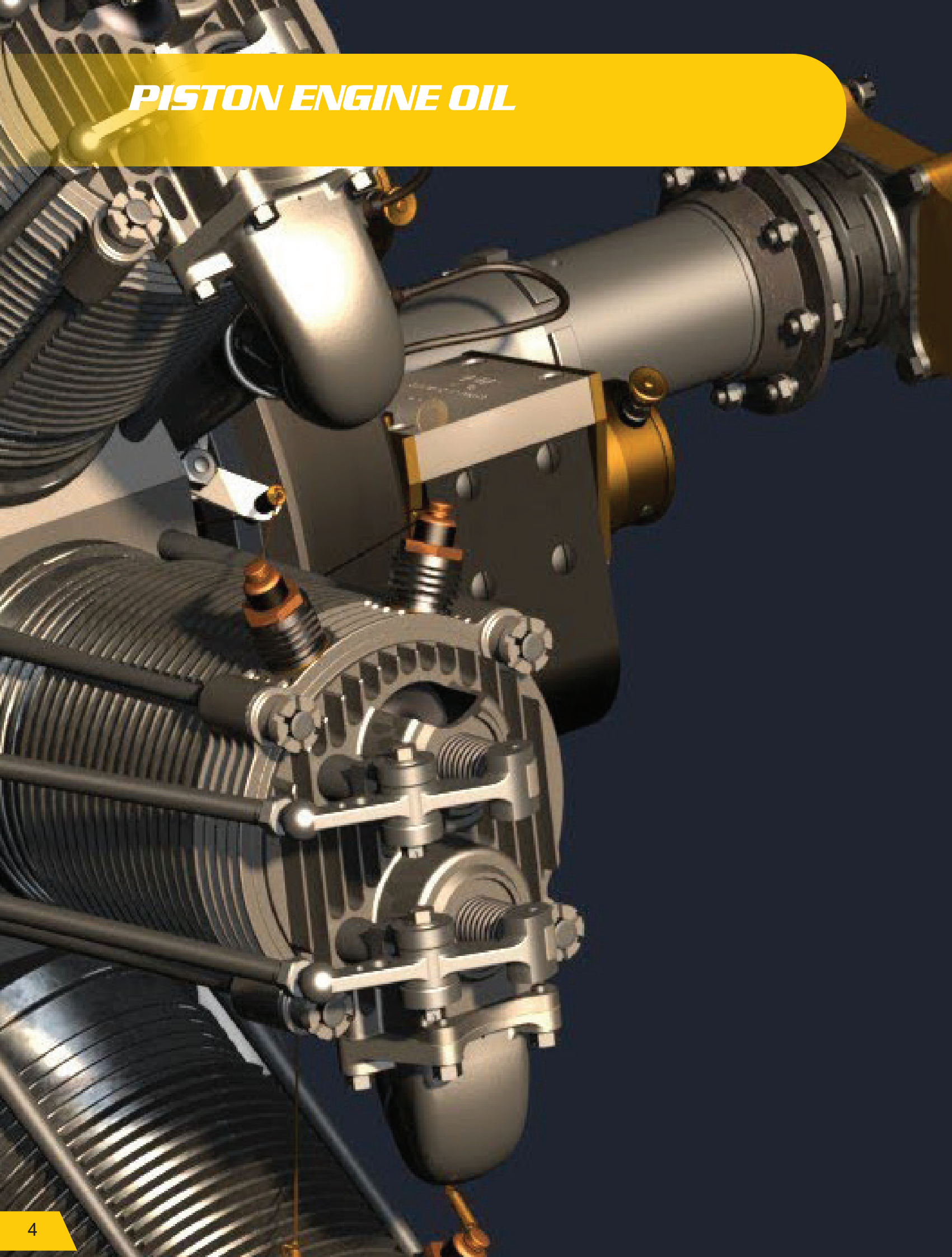
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At Johnson we have developed a wide range of lubricants that covers most of the lubrication needs in the aviation industry both for engines and the rest of the machineries in the system. Through the specialize support of top additive suppliers.

We providing our clients with major range of products at high specs as well as all the other lubricants and greases used in the aviation machineries.



# ***PISTON ENGINE OIL***



# PISTON ENGINE OIL

For generations, the aviation industry has put its trust in JOHNSON piston engine oils to meet the exacting demands each aircraft piston engine places on its oil. And we continually innovate to offer superior products.

Whether your power plant is air- or liquid-cooled; two- or four-stroke; geared or direct drive; gasoline or diesel fuelled; or carburetted, fuel injected, or turbocharged, there is an Johnson piston engine oil specially formulated to look after your engine the way you look after your aircraft.

## AVION RON424 SPORT PLUS

**JOHNSON AVION RON424 SPORT PLUS** Synthetic technology 4 stroke aircraft piston engine oil specifically developed for light aviation piston engine. This special oil is developed base of requirement of light sport & very light aircraft engine to keep the engine sludge and varnish force help to reduce oil consumption. Anti foaming formulation additive help to maximise effectiveness specially for those engine operating an intergrated gearbox.

### Meet & Exceed

- ROTAN\* Ron 424  
SI-912i-01/SI-  
0912016/SI-914-019

## AVION J1899-15W50

**JOHNSON AVION J899-15W50** a unique blend of high quality synthetic technology hydrocarbon base-anti wear additive system provide outstanding wear protection for critical camshaft, lifters and high wear components. The anti corrosion additive package helps to protect from high humidity adjust any rust and corriasion of critical parts. Its designed to keep engines clean & less sludge and varnish.

### Meet & Exceed

- US J1899 Grade: Multigrade
- British J1899  
Grade: Multigrade
- Nato - 0162
- OMD- 162
- Continentals MHS 24A-SIL  
99.2

## AVION J1899-40

**JOHNSON AVION J1899-40** is an ashless dispersant oil specifically developed for aviation piston engines. It combines non metallic additives with high viscosity index base oils to give exceptional stability, discrepancy and anti-foaming performance. These additives leave no metallic ash residues that can lead to deposit formation in combustion chambers and on spark plugs, which can cause pre-ignition and possible engine failure.

### Meet & Exceed

- US:- J-1966 SAE Grade 40
- J-1966 SAE Grade 30
- Joint Service Designation:-  
OM-170 Obsolete

## AVION J1899-50

**JOHNSON AVION J1899-50** our J oil are non-ash disperant oils especialy developed to be used in aircraft engines. Combine non-metallic additives with high viscosity index. Intended for use in 4 stroke cycle (four-cycle) certified reciprocating piston engines. It can corresponds to the viscosity of the oil at 210F in Saybolt Universal Seconds.

### Meet & Exceed

- US:- J-1966 SAE Grade 50
- J-1966 SAE Grade 30
- MS-20
- Joint Service Designation:-  
OM-270 Obsolete

## AVION J1899-60 PLUS

**JOHNSON AVION J1966-30** is a selected from high viscosity index base stocks, designed to provide effective protection to engine components compared to conventional oils. This helps ensure complete confidence and peace of mind knowing that your aircraft will perform reliably in between scheduled overhauls. No additives except for small quantity of pourpoint depressant ( which is added when improved fluidity at very low temperature is required) and an anti-oxidant.

### Meet & Exceed

- US:- J-1966 SAE Grade 60

## AVION J1899-40 PLUS

**JOHNSON AVION 80** is a selected from high viscosity index base stocks, designed to provide effective protection to engine components compared to conventional oils. This helps ensure complete confidence and peace of mind knowing that your aircraft will perform reliably in between scheduled overhauls. No additives except for small quantity of pourpoint depressant ( which is added when improved fluidity at very low temperature is required) and an anti-oxidant.

### Meet & Exceed

- US:- J-1899 SAE Grade 40
- UK:- J-1899 SAE Grade 40
- FAA:- Airworthiness Directive 80-04-03 R2

## AVION J1899-50 PLUS

**JOHNSON AVION 100** is a selected from high viscosity index base stocks, designed to provide effective protection to engine components compared to conventional oils. This helps ensure complete confidence and peace of mind knowing that your aircraft will perform reliably in between scheduled overhauls. No additives except for small quantity of pourpoint depressant ( which is added when improved fluidity at very low temperature is required) and an anti-oxidant.

### Meet & Exceed

- US:- J-1899 SAE Grade 40
- UK:- J-1899 SAE Grade 40
- FAA:- Airworthiness Directive 80-04-03 R2

## AVION J1966-30

**JOHNSON AVION 100** our J oil are non-ash disperant oils especially developed to be used in aircraft engines. Combine non-metallic additives with high viscosity index. Intended for use in 4 stroke cycle (four-cycle) certified reciprocating piston engines. It can corresponds to the viscosity of the oil at 210F in Saybolt Universal Seconds.

### Meet & Exceed

- US:- J-1966 SAE Grade 50
- British:- J-1966 SAE Grade 50
- Russian:- MS-20
- Joint Service Designation:- OMD-270

## AVION J1966-40

**JOHNSON AVION J1966-40** our J oil are non-ash disperant oils especially developed to be used in aircraft engines. Combine non-metallic additives with high viscosity index. Intended for use in 4 stroke cycle (four-cycle) certified reciprocating piston engines. It can corresponds to the viscosity of the oil at 210F in Saybolt Universal Seconds.

### Meet & Exceed

- US:- J-1899 SAE Grade 30
- British:- J-1899 SAE Grade 40
- Russian:- MS-14
- Joint Service Designation:- OMD-160

## **AVION J1966-60**

**JOHNSON AVION J1966-60** our J oil are non-ash disperant oils especialy developed to be used in aircraft engines. Combine non-metallic additives with high viscosity index. Intended for use in 4 stroke cycle (four-cycle) certified reciprocating piston engines. It can corresponds to the viscosity of the oil at 210F in Saybolt Universal Seconds.

### **Meet & Exceed**

- SAE J1966 SAE 60

## **AVION DIESEL ULTRA**

**JOHNSON AVION Diesel** is a PAO (Poly Alpha Olefein) base, multigrade 5W-30 piston engine oil specially designed for new generation of compression ignition Diesel engine. The new generation of additives gives a superior cleanliness to the piston resulting efficiency & reliability of the engine. The additive also include a powerful surface acting additive, which bonds to the surface of highly loaded engine parts protecting your engine from any damage.

### **Meet & Exceed**

- SMA: SR305-230E
- Austro Engine : AE300



# ***TURBINE ENGINE OIL***





## AVION TURBINE 23699 F

**JOHNSON AVION TURBINE 23699 F** is developed for the latest generation of gas turbine engines as a low-coking, high elastomer compatibility product. Its improved thermal and oxidative stability will ensure negligible coke formation in engines, so any traditional engine problems associated with coke should never occur. Tested in extensively for elastomer compatibility.

### Meet & Exceed

- US – MIL-PRF-23699G HTS Grade
- DEF STAN 91-101
- Equivalent DCSEA 299/A
- NATO Code – O-154
- Joint Service Designation – OX-27

## AVION TURBINE 23699 G

**JOHNSON AVION TURBINE 23699 G** is designed to improve your engine's performance and help it last longer. This 5 mm<sup>2</sup>/s synthetic oil includes a balanced combination of carefully selected additives to offer better thermal and oxidation stability and metal passivation.

### Meet & Exceed

- US – MIL-PRF-23699G Grade STD
- DEF STAN 91-101 Grade OX-27
- Equivalent DCSEA 299/A
- NATO Code – O-156
- Joint Service Designation – OX-27

## AVION TURBINE 23699 G STD

**JOHNSON AVION TURBINE 23699 G** is a 5 mm<sup>2</sup>/s synthetic hindered ester oil incorporating a carefully selected and balanced combination of additives to improve thermal and oxidation stability and metal passivation. Its developed essentially to meet the requirements of Pratt & Whitney 521 Type II and MIL-L-23699 specifications and is entirely suitable for most civil and military engines requiring this class of lubricant.

### Meet & Exceed

- US – MIL-PRF-23699G Grade STD
- DEF STAN 91-101 Grade OX-27
- Equivalent DCSEA 299/A
- NATO Code – O-156
- Joint Service Designation – OX-27

## AVION TURBINE 23699 G HTS

**JOHNSON AVION TURBINE 23699 G HTS** is developed based on a deep understanding of commercial aviation requirements. The result is a versatile lubricating oil proven to deliver cleaner engines, more reliable operational performance and longer maintenance cycles. Contains a high performance synthetic hydrogenated ester oil with low coking and contains carefully selected and precisely balanced additives to improve thermal and oxidation stability.

### Meet & Exceed

- US – MIL-PRF-23699G Grade HTS
- DEF STAN 91-101 Grade OX-27
- Equivalent DCSEA 299/A
- Analogue to VNII NP 50-1-4F, B3V, LZ-240, VNII NP 50-1-4U, and 36/Ku-A
- NATO Code – O-156
- Joint Service Designation – OX-27

## AVION TURBINE 7808 L

**JOHNSON AVION TURBINE 7808 L** is a 3mm<sup>3</sup>/s synthetic ester oil incorporating additives to improve resistance to oxidation and corrosion and to minimise wear. Developed specially for use in particular models of aircraft turbo-prop and turbo-jet engines for which a MIL-PRF-78087 (formerly MIL-L-7808) oil is required.

### Meet & Exceed

- US – MIL-PRF-7808L Grade 3
- NATO Code – O-148
- Joint Service Designation – OX-9

## AVION TURBINE 6081 E

**JOHNSON AVION TURBINE 6081 E** designed for use in older jet engines and other high-speed turbines that require this type of petroleum-based turbine oil. Brayco <sup>460</sup> may also be used in various applications requiring low temperature operation and good viscosity behavior. **JOHNSON AVION TURBINE 6081 E** is 2mm<sup>2</sup>/s mineral turbine oil blended from mineral base stocks to which a pour-point depressant and an anti-oxidant have been added.

### Meet & Exceed

- US – MIL-PRF-6081E Grade 1010
- NATO Code – O-133

## AVION TURBINE 91-94

**JOHNSON AVION TURBINE 91-94** is a 3 mm<sup>2</sup>/s synthetic diester oil incorporating a carefully selected and balanced combination of additives to improve thermal and oxidation stability and to increase the load carrying ability of the base oil. With its much smaller viscosity increase of typically 2,000 cSt at -40°C, can help to improve cold-soak start-up reliability and thus maximise ETOPS times, as it has significantly lower viscosity at cold-soak start-up temperatures (-40°C) than a standard 5-cSt oil.

### Meet & Exceed

- British – DEF STAN 91-94
- Russian – analogue IPM-10, VNII NP 50-1 4f and 4u, and 36Ku-A
- NATO Code – O-154
- Joint Service Designation – OX-7

## AVION TURBINE 91-100

**JOHNSON AVION TURBINE 91-100** is formulated from synthetic base stocks and advanced technology additives, to provide the combined thermal and oxidation stability properties of commercial Type II lubricants, with extreme pressure additives to maximise gear system reliability. This product comply with U.S Military Specification, DOD-L-85734 and British DEF STAN 91-100, which covers a helicopter transmission oil.

### Meet & Exceed

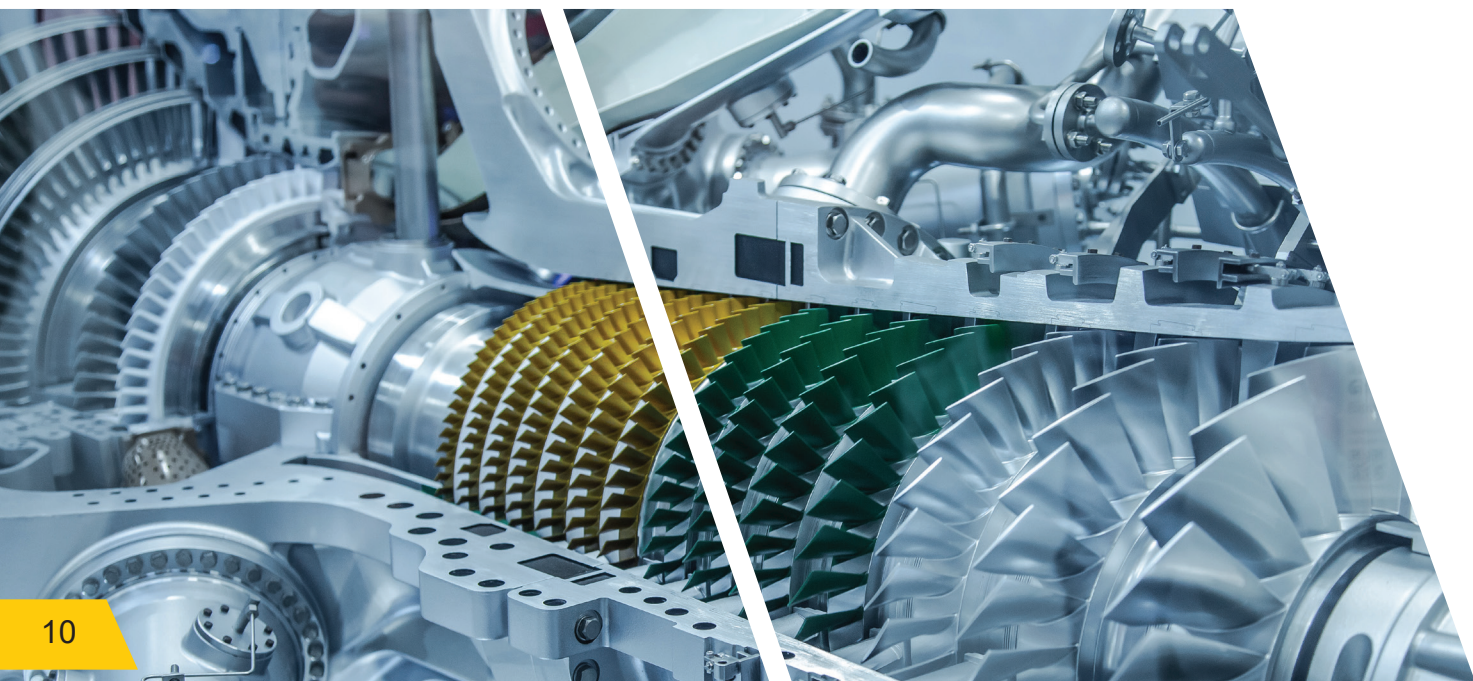
- U.S. Approved DOD-L-85734
- DEF STAN 91-100
- NATO Code O-160
- Joint Service Designation OX-2
- P&W 521C Type II
- GE Approved D-50 TF 1

## AVION TURBINE 750

**JOHNSON AVION TURBINE 750** is 7.5mm<sup>2</sup>/s synthetic oil with excellent load carrying, thermal, and oxidation stability was developed to offer a high standard of lubrication in British civil gas turbines. It's especially useful in turbo-prop engines, which benefit from its load carrying.

### Meet & Exceed

- Approved DEF STAN 91- 98 (replaces DERD 2487)
- Equivalent AIR 3517
- Analogue to TU 38.1011722-85 Grade MN-7.5u
- O-149 (equivalent O-159)
- Joint Service Designation OX-38



# HYDRAULIC FLUIDS



# HYDRAULIC

JOHNSON hydraulic fluids for aviation applications ensure the lubrication, robustness and reliability of equipment. Their anti-wear, resistance to oxidation, corrosion protection, and high viscosity index properties make all our products exceed in many cases the requirements set forth in US and European standards.

## AVION HYDRO 5606 J

**AVION HYDRO 5606J** is a hydraulic oil manufactured to a very high level of cleanliness and it possesses improved fluid properties. It contains additives that provide excellent low-temperature fluidity as well as exceptional anti-wear, oxidation – corrosion inhibition and shear stability. In addition, metal de-activators and foam inhibitors are included in this high-viscosity index fluid to enhance performance in hydraulic applications.

### Meet & Exceed

- MIL-PRF-5606H\*
- DEF STAN 91-48 Grade Superclean\*
- QPL-CMS-OL-104
- DCSEA 415/A, DEF STAN 91-48 Normal\*
- Analogue to AMG-10
- NATO Code H-515\* (equivalent H-520)
- Joint Service Designation OM-15\* (equivalent OM-18)

## AVION HYDRO 5606 A

**JOHNSON AVION HYDRO 5606 A** is a hydraulic oil with very good low temperature characteristics and capable of operating over a wide temperature range. It provide excellent wear protection for hydraulic pumps and motors, protect hydraulic system components against rust and corrosion, and are resistant to excessive foam buildup that can cause poor or sluggish hydraulic system response.

### Meet & Exceed

- MIL-H-5606A
- DTD 58.5
- DEF STAN 91.48 Grade Normal
- DCSEA 415/A
- Analogue to AMG-10
- NATO CODE H-520
- Joint Service Designation OM-18 (European production only)

## AVION HYDRO 5606 H

**JOHNSON AVION HYDRO 5606 H** Landing Gear Fluid (LGF) is a yellow, mineral hydraulic fluid (MIL-PRF-5606) to which additional additives have been added to improve the extreme pressure characteristics and the fluid's natural lubricity. The lubricity agent provides a stable thin film layer to the metal surfaces at mild operating conditions. When severe conditions exist (landing/touchdown), the extreme pressure additive supplies the load carrying needed at the metal-to-metal surfaces to prevent the occurrence of such phenomena as "ladder cracking" and "slip stiction" of the piston.

### Meet & Exceed

- MIL-PRF-5606H\*
- DEF STAN 91-48 Grade Superclean\*
- QPL-CMS-OL-104
- DCSEA 415/A, DEF STAN 91-48 Normal\*
- Analogue to AMG-10
- NATO Code H-515\* (equivalent H-520)
- Joint Service Designation OM-15\* (equivalent OM-18)

## AVION HYDRO 83282 D

**JOHNSON AVION HYDRO 83282 D** is synthetic hydrocarbon based aircraft hydraulic fluid with greatly improved fire resistance characteristics and high level of cleanliness when compared with conventional petroleum products. **AVION HYDRO** is formulated for aircraft systems where use of hydrocarbon-based hydraulic fluids is required. They are low viscosity products, high VI (viscosity index) fluid with excellent low temperature properties, good anti-wear performance, and good chemical stability.

### Meet & Exceed

- US: Approved MILPRF-83282D
- MIL-PRF-83282D
- DCSEA 427/A
- Joint Service Designation: OX-19

## AVION HYDRO 46170 E

**JOHNSON AVION HYDRO 46170 E** is a synthetic hydrocarbon base hydraulic fluid specifically inhibited to provide excellent oxidation stability for the oil and good corrosion preventive protection to the hydraulic system. Rust inhibitors are utilized to provide protection to ferrous components and modern additive technology is employed for oxidative stability, corrosion inhibition, and antiwear protection. AeroSyn 46170 is designated as a P-15 protectant according to the MIL-P-116G standard.

### Meet & Exceed

- MIL-PRF-461700 Type I\*
- NATO Code: H-544



***GEAR OIL***

# GEARS

JOHNSON gear fluids for aviation applications ensure the lubrication, robustness and reliability of equipment. Their anti-wear, resistance to oxidation, corrosion protection and high viscosity index properties make all our products exceed in many cases the requirements set forth in US and European standards.

## ENGRENAGE 6086 F

**JOHNSON ENGRENAGE 6086 F** is a highly refined, medium viscosity mineral oil containing an extreme pressure additive as well as additives to provide good oxidation and corrosion protection. It suitable as an extreme pressure lubricant for heavily loaded pins, bushes and gear mechanisms.

### Meet & Exceed

- MIL-PRF-6086F
- DEF STAN 91-112
- NATO NATO Code O-155
- OEP - 70

## ENGRENAGE 5606 H

**JOHNSON ENGRENAGE 5606 H** is a hydraulic fluid (MIL-PRF-5606) to which additional additives have been added to improve the fluid's natural lubricity and is suitable for low temperature operations. The lubricity agent provides a stable thin film layer to the metal surfaces at mild operating conditions. When severe conditions exist (landing/touchdown), the extreme pressure additive supplies the load carrying needed at the metal-to-metal surfaces to prevent the occurrence of such phenomena as "ladder cracking" and "slip stiction" of the piston component of the landing gear.

### Meet & Exceed

- Boeing: Approved BMS-3-32A (Type II)
- DPM-6177
- Lockheed L1011 Tristar

## ENGRENAGE 8350-90

**JOHNSON ENGRENAGE 90** is used for helicopter rotor gears, drive-shafts and pitch control mechanisms and wherever high loads and slow speeds in gears require the use of a 90 EP gear oil. AeroShell Fluid S.8350 is approved for use in various Westland helicopter gearboxes.

### Meet & Exceed

- OEP - 215



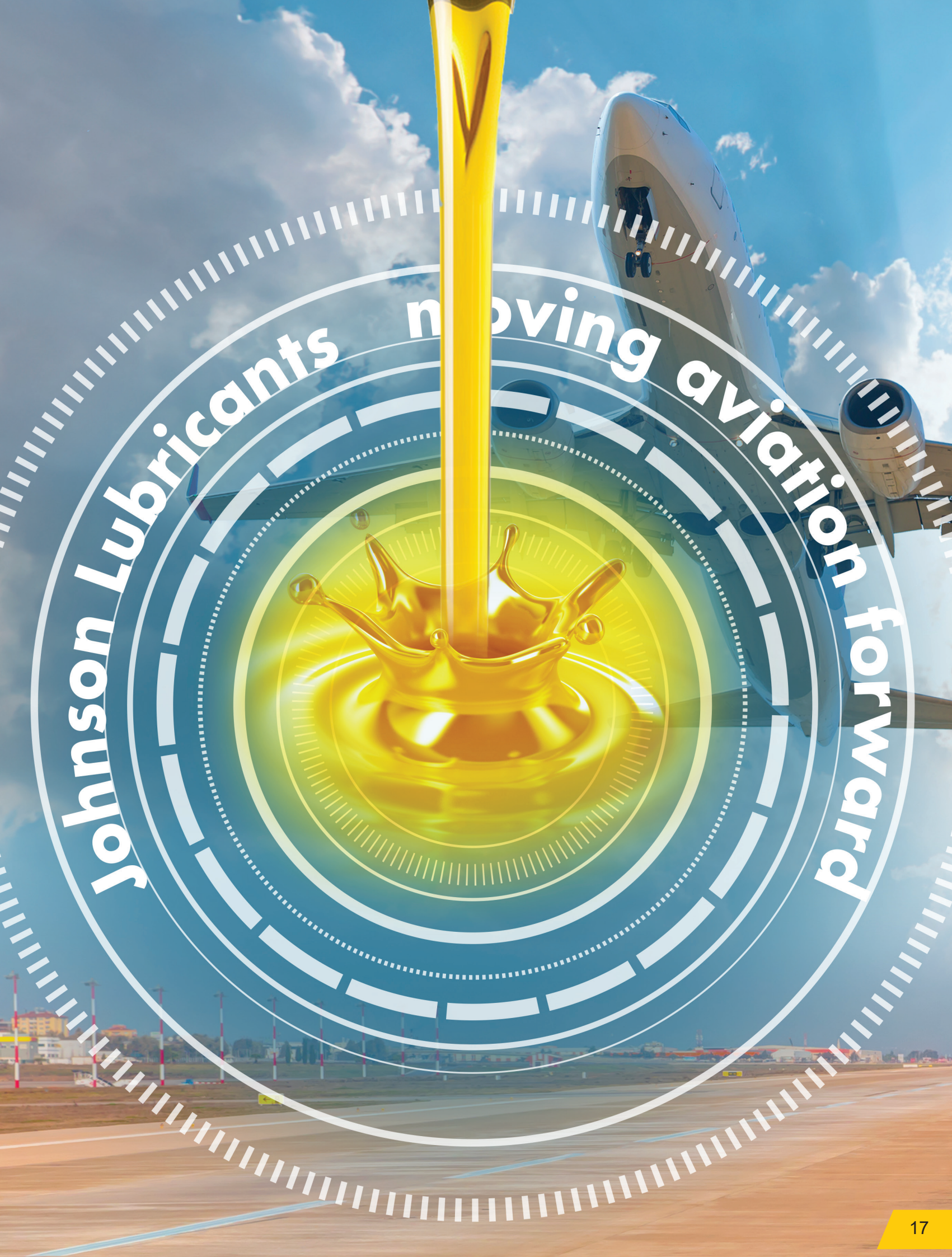
# PACKAGING

PRODUCTS	BULK	IBC 1000L	Drum 208L	Container 20L	Container 5L	Container 1L
<b>PISTON ENGINE OIL</b>						
<b>AVION RON424 SPORT PLUS</b>			●	●	●	●
<b>AVION J1899</b>			●	●	●	●
<b>AVION J1899-40</b>			●	●	●	●
<b>AVION J1899-50</b>			●	●	●	●
<b>AVION J1899-60</b>			●	●	●	●
<b>AVION J1899-40 PLUS</b>			●	●	●	●
<b>AVION J1899-50 PLUS</b>			●	●	●	●
<b>AVION J1966-30</b>			●	●	●	●
<b>AVION J1966-40</b>			●	●	●	●
<b>AVION DIESEL ULTRA</b>			●	●	●	●
<b>TURBINE ENGINE OIL</b>						
<b>AVION TURBINE 23699 F</b>			●	●	●	●
<b>AVION TURBINE 23699 G</b>			●	●	●	●
<b>AVION TURBINE 23699 G STD</b>			●	●	●	●
<b>AVION TURBINE 23699 G HTS</b>			●	●	●	●
<b>AVION TURBINE 7808 L</b>			●	●	●	●
<b>AVION TURBINE 6081 E</b>			●	●	●	●
<b>AVION TURBINE 91-94</b>			●	●	●	●
<b>AVION TURBINE 91-100</b>			●	●	●	●
<b>AVION TURBINE 750</b>			●	●	●	●
<b>HYDRAULIC FLUIDS</b>						
<b>AVION HYDRO 5606 J</b>			●	●	●	●
<b>AVION HYDRO 5606 A</b>			●	●	●	●
<b>AVION HYDRO 5606 H</b>			●	●	●	●
<b>AVION HYDRO 83282 D</b>			●	●	●	●
<b>AVION HYDRO 46170 E</b>			●	●	●	●

PRODUCTS	BULK	IBC 1000L	Drum 208L	Container 20L	Container 5L	Container 1L
<b>GEAR OIL</b>						
<b>ENGRENAGE 6086 F</b>			●	●	●	●
<b>ENGRENAGE 5606 H</b>			●	●	●	●
<b>ENGRENAGE 8350-90</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 3545 C</b>			●	●	●	●
<b>GRAISSE 24139 A</b>			●	●	●	●
<b>GRAISSE 23827 C-I</b>			●	●	●	●
<b>GRAISSE 23827 C-II</b>			●	●	●	●
<b>GRAISSE 25537 C</b>			●	●	●	●
<b>GRAISSE 81322 G</b>			●	●	●	●
<b>GRAISSE 81322 G</b>			●	●	●	●
<b>GRAISSE 3058</b>			●	●	●	●

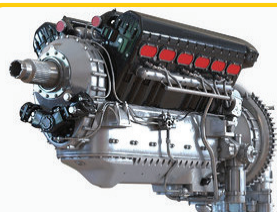






**Johnson Lubricants moving aviation forward**

# PISTON ENGINE OIL



## PISTON ENGINE

- AVION J1899-15W50



## GEAR & HYDRAULIC

- GRAISSE 81322 G
- GRAISSE 3545 C
- GRAISSE 3058
- AVION HYDRO 5606 A



**ELEVATOR**

- AVION HYDRO 5606 A
- GRAISSE 81322 G



**RUDDER**

- AVION HYDRO 5606 A
- GRAISSE 81322 G



**AIRBREAK SPOILER  
& FLAPS**

- AVION HYDRO 5606 A
- GRAISSE 81322 G

# TURBINE ENGINE OIL



## PASSENGER BACK DOOR

• AVION HYDRO 5606 A



## RUDDER

• AVION HYDRO 5606 A



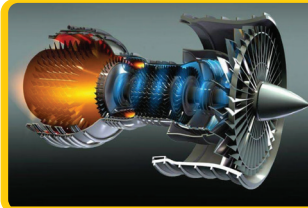
## AIRBREAK SPOILER & FLAPS

• AVION HYDRO 5606 A



## GENERATOR

• AVION J1899 15W50



## TURBINE ENGINE

• AVION TURBINE 23699 F



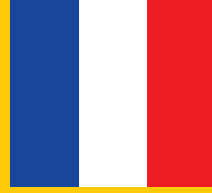
**PASSENGER  
FRONT DOOR**

- AVION HYDRO 5606 A



**GEAR & HYDRAULIC**

- GRAISSE 81322 G
- GRAISSE 3545 C
- GRAISSE 3058
- AVION HYDRO 5606 A



## **JOHNSON LUBRICANTS**

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