



Mobil SHC Aware™ Gear Series

ExxonMobil Marine , Chile

U.S. EPA 2013 Vessel General Permit Compliant Gear Oil

Product Description

Mobil SHC Aware™ Gear Series are a range of high performance, anti-wear gear oils for use in marine applications and meet the U.S. Environmental Protection Agency (EPA) 2013 Vessel General Permit (VGP) guidelines for “environmentally acceptable lubricants”. They provide excellent wear protection for gears and bearings and safeguard equipment from rust and corrosion. They also possess outstanding oxidation properties, which help to extend oil life, and offer a wide operating temperature range and excellent low temperature start-up. Mobil SHC Aware Gear Series demonstrate excellent air release properties versus typical mineral gear oils, resulting in less air entrainment and protection from cavitation. Furthermore, their excellent seal compatibility helps to minimize leaks.

Features and Benefits

- Meets US EPA 2013 Vessel General Permit requirements for environmentally acceptable lubricants
- Outstanding load-carrying and anti-wear properties which protects system components against micropitting and scuffing and helps provide long equipment life
- Shear stable high viscosity index help sustain component protection over a wide temperature
- Excellent resistance to high temperatures degradation
- Very good demulsibility and resistance to rust and corrosion

Applications

- Marine controllable pitch propeller and thruster applications
- Suitable for enclosed gear drives including steel-on-steel spur, helical and bevel designs
- In systems where readily biodegradable and minimally toxic fluids may be required
- Marine and mobile equipment operating in environmentally sensitive areas
- Can be used in select Stern Tube applications

Mobil SHC Aware Gear Series have the following Thruster builder approvals:

- Nakashima
- HHI Hyundai
- KTE Nakashima Korea
- KHI

Specifications and Approvals

This product has the following approvals:	68	100	150
SKF Marine Environmental Acceptable Lubricant (EAL) for SIMPLEX Stern Tube Bushes and Seals.	X	X	X
Wartsila Norway AS - Marine Solutions Propulsion CPP Hydraulic System Oil - Environmentally Acceptable Lubrication - EAL	X		

This product has the following approvals:	68	100	150
Wartsila Norway AS - Marine Solutions Propulsion Sterntube / Seals lubrication Oil - Environmentally Acceptable Lubrication - EAL			X

This product meets or exceeds the following industry / Government requirements:	68	100	150
AGMA 9005-E02-EP	X	X	X
ISO L-CKC (ISO 12925-1:1996)	X	X	X
ISO L-CKD (ISO 12925-1:1996)	X	X	X
US EPA VGP:2013	X	X	X

Properties and Specifications

Property	68	100	150
Grade	ISO 68	ISO 100	ISO 150
Acute Algae Toxicity, EC50, 72 h, mg/l, OECD 201	>1000	>1000	>1000
Acute Daphnia Toxicity, EC50/48h, mg/l, OECD 202	>1000	>1000	>1000
Acute Fish Toxicity, LC50/96h, mg/l, OECD 203	>1000	>1000	>1000
Air Release Time, 50 C, min, ASTM D3427	12		
Air Release, 50 C, min, ASTM D3427		21	31
B-10 Oxidation Test, 80 h, 127 C, KV Increase @ 100 C, %, M 334	3	4	4
Bioaccumulation, Partition Coefficient, Log Pow, OECD 117	<3	<3	<3
Biodegradability after 28 days, %, OECD 301B			84
Density @ 15 C, kg/m3, DIN 51757	915.8	921.5	929.4
FE8 D7.5/80-80 Cage Wear, mg, DIN 51819-3	34	34	
FZG Micropitting, Load Stage GFT, Rating, FVA No. 54	10	10	10
FZG Scuffing, Fail Load Stage, A/8.3/90, ISO 14635-1	14	14	14
Flash Point, Cleveland Open Cup, °C, ASTM D92	273	287	281
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	10.7	13.3	17.8
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	68	100	150
Pour Point, °C, ASTM D97	-36	-36	-30
Rust Characteristics, Procedure B, ASTM D665			PASS
Rust Characteristics, Procedure B, 24 h, ASTM D665		PASS	

Property	68	100	150
Rust Test, Synthetic Sea Water, 24 h @ 60 C, ASTM D665-PROB	PASS		
Shake-Flask Test, CO2 Evolution (Mod. Sturm), %, OECD 301B	84	84	
Viscosity Index, ASTM D2270	141	137	135

Health and Safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.aspx>

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Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly.

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