

INTERLUBE IL-HMS

HYDRAULIC FLUID

IL-HMS

OVERVIEW

IL-HMS hydraulic fluids are semi-synthetic, readily biodegradable, zinc-free, anti-wear hydraulic oils formulated from renewable base stocks to meet the performance requirements of mobile and industrial hydraulic systems. These high lubricity base oils are paired with environmentally friendly additive technologies to minimize ecological impact. Lubricants offer excellent thermal and oxidative stability, assuring superior service life with minimal viscosity change over a broad range of operating temperatures. IL-HMS fluids are suitable for use in all conventional hydraulic systems, especially environmentally sensitive applications.

SPECIFICATIONS, APPROVALS AND RECOMMENDATIONS:

- USDA Bio preferred program
- Classified as Environmentally Acceptable Lubricants (EAL'S) per the EPA'S 2013 U.S. Vessel General Permit (VGP). Viscosity grades 32 & 46 only.

TYPICAL PROPERTIES

Technical Properties

ISO Grade	15	22	32	46	68
Specific Gravity , ASTM D1298	.90	.87	.87	.87	.90
Viscosity , ASTM D445 @40°C, cSt	15	22	32	46	68
Viscosity , ASTM D445 @100°C, cSt	4	5	7	10	14
Viscosity Index (VI) , ASTM D2270	>190	>180	>215	>215	>215
Pour Point , ASTM D97, °F (°C)	-45 (-42)	-30 (-34)	-30 (-34)	-30 (-34)	-30 (-34)
Flash Point , ASTM D92, °F (°C)	>400 (204)	>325 (163)	530 (280)	>520 (270)	>470 (243)

Performance Properties

FZG Load Stage , DIN 51354	11	11	11	11	11
Copper Corrosion , ASTM D4048	1A	1A	1A	1A	1A
Rust Test , ASTM D665, A & B	PASS	PASS	PASS	PASS	PASS
4 Ball Wear , ASTM D4172, Scar, mm	<0.50	<0.50	<0.50	<0.50	<0.50
Dielectric Breakdown Volt , ASTM D877, kV	>45	>45	>45	>45	>45
Readily Biodegradable (meaning>60%)	PASS	PASS	PASS	PASS	PASS
OECD 301B, %	>70	>70	>76	>78	>70
Minimally Toxic	PASS	PASS	PASS	PASS	PASS
OECD 201 -Algae (EC 50), 72 hr, mg/ L	>20k mg/ L	>20k mg/ L	>20k mg/ L	>32k mg/ L	>26k mg/ L
OECD 202 -Daphnia (EC 50), 48 hr, mg/ L	>5k mg/ L	>5k mg/ L	>5k mg/ L	>10k mg/ L	>8k mg/ L
OECD 203 -Fish (LC 50), 96 hr, mg/ L	>34k mg/ L	>34k mg/ L	>34k mg/ L	>40k mg/ L	>36k mg/ L
Not Bio accumulative*	PASS	PASS	PASS	PASS	PASS
(*Calculated value as per EPA standard)					
Bio-based Content , ASTM D6866, %	>75	>75	>86	>86	90

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excavating, dredging, marine, agriculture, oil & gas, plant operations, etc., mining mobile or stationary hydraulically powered equipment, especially hydraulic systems where a release into the environment is possible or where a leak or spill could reach a waste stream. Follow recommendations provided in your equipment owner's manual. Follow your organization's best practices for preparation, cleaning, conversion, application, and ongoing maintenance practices. Technical Support - If you have further questions, please fill out contact form on interlube.ca and one of our team will contact you to review your question(s).

PRODUCT HANDLING AND SAFETY

- Keep in a cool, dry and well-ventilated place. Do not breathe vapor/dust.
- Store in a properly labelled, original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. To help maintain product quality, do not store in heat or direct sunlight.
- Use personal protective equipment and avoid contact with skin, eyes, and clothing. Wash thoroughly after handling.
- See the safety data sheet (SDS) for emergency, proper handling, and disposal information.



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