

INTERLUBE IL-HMS68

SYNTHETIC BLEND ANTI-WEAR HYDRAULIC FLUID

IL-HMS68

OVERVIEW

Interlube IL-HMS68 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. High lubricity base oils are paired with environmentally responsible additive technologies to minimize ecological impact. These lubricants offer excellent thermal and oxidative stability, assuring superior service life with minimal viscosity change over a broad range of operating temperatures. Interlube IL-HMS68 fluids are suitable for use in all conventional hydraulic systems, especially environmentally sensitive applications.

FEATURES AND BENEFITS

- Zinc Free – Reduced risk of corrosion of certain metals. Safer for use around bodies of water
- Readily biodegradable
- High viscosity index (VI) - Excellent thermal and oxidative stability
- High lubricity
- Environmentally Acceptable Lubricant's (EAL's) as per EPA 2013 U.S. Vessel General Permit (VGP) guidelines
- Wider operating temperature range
- Excellent solvency – Reduces deposits and varnish
- Sheen free available (See - Interlube AWS SF)

PACKAGING

- Pail 18.9L
- Drum 208.2L
- Tote 1040L

SUITABLE USES

Recommended for use in vane, gear and piston pump hydraulic systems that must meet the following approval specifications:

- Meets Eaton Brochure 03-401-2010 (Dry ASTM D943)
- Meets ISO 15380 HEES (Dry ISO 4263-3)
- Meets DIN 51524 Part 1, 2 & 3 (Dry ISO 4253-1)

COMPATIBILITY

Equipment Compatibility

- Any mobile or stationary equipment calling for anti-wear hydraulic oil Lubricant Compatibility

Lubricant Compatibility

- Compatible with most other types of lubricants (for specific applications and lubricants please contact your Interlube representative)

Seal & Paint Compatibility

- Compatible with most seals except seals with less than 30% Buna
- No known paint compatibility issues

STORAGE AND SHELF LIFE

Storage - Keep in a cool, dry and well-ventilated place. 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.

Shelf Life - Product shelf life is 24 months from date of packaging. In some cases product can last longer, please contact your Interlube representative for proper testing and confirmation instructions.

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CAUTIONS

Ensure adequate ventilation. Do not breathe vapor/dust. 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.

APPLICATION

- Follow recommendations provided in your equipment's owner's manual
- Follow your organization's manuals and/or best practices for preparation, cleaning, conversion, application and ongoing maintenance practices
- If you have further questions, please contact Interlube Tech Services by filling out the contact us form on interlube.com

AVAILABILITY

Worldwide

TECHNICAL SERVICES

For additional information including the Safety Data Sheet (SDS), Frequently Asked Questions, and Glossary please visit interlube.ca.

APPROVALS AND CERTIFICATIONS

- USDA BioPreferred – 90% biobased (68)
- Classified as Environmentally Acceptable Lubricants (EAL's) as per the EPA's guidance document that defines standards for Environmentally Acceptable Lubricants (EPA800-R-11-002) and as required by EPA's 2013 U.S. Vessel General Permit (VGP)

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TYPICAL PROPERTIES

IL-HMS68	ASTM Test Method	15	22	32	46	68
Product code						
ISO Grade		15	22	32	46	68
Specific Gravity	ASTM D1298	.90	.87	.87	.87	.90
Viscosity @40°C, cSt	ASTM D445	15	22	32	46	68
Viscosity @100°C, cSt	ASTM D445	4	5	7	10	14
Viscosity Index	ASTM D2270	>190	>180	>215	>215	>215
Pour Point °F (°C)	ASTM D97	-45 (-42)	-30 (-34)	-30 (-34)	-30 (-34)	-30 (-34)
Flash Point °F (°C)	ASTM D92	>400 (204)	600 (315)	600 (315)	600 (315)	>470 (243)
FZG Load Stage	DIN 51354-2	11	11	11	11	11
Copper Corrosion	ASTM D4048	1A	1A	1A	1A	1A
Rust Test, A&B	ASTM D665	PASS	PASS	PASS	PASS	PASS
4 Ball Wear, Scar, mm	ASTM D4172	<0.50	<0.50	<0.50	<0.50	<0.50
Dielectric Breakdown Volt, kV	ASTM D877	>45	>45	>45	>45	>45
Readily Biodegradable (meaning>60%)				PASS	PASS	PASS
Biodegradability, %	OECD 301B			>76	>78	>70
Minimally Toxic				PASS	PASS	PASS
Algae (EC 50), 72 hr, mg/L	OECD 201			>20k mg/L	>20k mg/L	>20k mg/L
Daphnia (EC 50), 48 hr, mg/L	OECD 202			>5k mg/L	>10k mg/L	>8k mg/L
Fish (LC 50), 96 hr, mg/L	OECD 203			>34k mg/L	>34k mg/L	>34k mg/L
Not Bioaccumulative, (Calculated value as per EPA standard)				PASS	PASS	PASS
Bio-based Content %	ASTM D6866			>86	>86	>80

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