

HonuBio AW SB

EAL, Biodegradable Synthetic Blend Hydraulic Fluid

ISO 15, 22, 32, 46, 68



Next Generation Sustainable Lubrication Technologies

PRODUCT NAME

HonuBio AW SB
(Synthetic Blend Hydraulic Fluid)

DESCRIPTION

HonuBio AW SB hydraulic fluid is synthetic blend, 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. HonuBio AW SB 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's 2013 U.S. Vessel General Permit (VGP) guidelines
- Wider operating temperature range
- Excellent solvency – Reduces deposits and varnish
- Wider operating temperature range

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

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

Seal & Paint Compatibility

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

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 Honu Eco Tech Services by filling out the contact us form on honueco.com

APPROVALS / 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 (EPA 800-R-11-002) and as required by EPA's 2013 U.S. Vessel General Permit (VGP)

PACKAGE SIZES

5 Gal Pails, 55 Gal Drums, 275 Gal Totes

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.

CAUTIONS

Ensure adequate ventilation. Do not breathe vapor/dust. Use personal protective equipment and avoid contact with skin, eyes, and clothing. Wash thoroughly after

AVAILABILITY

- Worldwide

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Typical Properties

Technical Properties	ASTM Test Method	15	22	32	46	68
Product Code		HBSBAW15	HBSBAW22	HBSBAW32	HBSBAW46	HBSBAW68
ISO Grade		15	22	32	48	68
Specific Gravity	D-1298	0.9	0.87	0.87	0.87	0.9
Viscosity D445 @40°C, cSt	D-445	15	22	32	48	68
Viscosity D445 @100°C, cSt	D-445	4	5	7	10	14
Viscosity Index	D-2270	>190	>180	>215	>215	>215
Flash Point °C	D92	204	163	163	243	243
Pour Point °C	D97	-42	-34	-34	-34	-34
Performance Properties						
FZG Load Stage, DIN 51354	DIN 51354	11	11	11	11	11
Copper Corrosion	D4048	1A	1A	1A	1A	1A
Rust Test, A&B	D665	Pass	Pass	Pass	Pass	Pass
4 Ball Wear	D-4172	<0.50	<0.50	<0.50	<0.50	<0.50
Dielectric Breakdown Voltage, kV	D-877	<45	<45	<0.50	<0.50	<0.50
Biodegradability % (meaning>60%)		Pass	Pass	Pass	Pass	Pass
Biodegradability, %	OECD 301B	>70	>70	>76	>78	>70
Minimally Toxic		Pass	Pass	Pass	Pass	Pass
Algae (EC 50), 72 hr, mg/L	OECD 201	>20K mg/L	>20K mg/L	>20K mg/L	>32k mg/L	> 26k mg/L
Daphnia (EC 50), 48 hr	OECD 202	>5k mg/	>5k mg/	>5k mg/	>10k mg/L	> 8k mg/L
Fish (LC 50), 96 hr, mg/L	OECD 203	>34k mg/L	>34k mg/L	>34k mg/L	>40k mg/L	36k mg/L
Not Bioaccumulative* (*Calculated value as per EPA standard)		Pass	Pass	Pass	Pass	Pass
Bio-based Content	D6866	>75	>75	>86	>86	90

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