



LUCAS OIL PRODUCTS, INC. PRODUCT DATA SHEET

ZINC FREE ISO 46 ANTI-WEAR HYDRAULIC FLUID

Lucas Zinc Free ISO 46 Anti-Wear Hydraulic Fluid is blended from premium paraffinic base oils and compounded with multiple chemical components to produce a product with superior performance. Contains no zinc or heavy metals.

Lucas ISO 46 AW Hydraulic Fluid resists oxidation for longer life and greater machine cleanliness. In industry standard oxidation tests, Lucas AW HF exceeded the performance of industry leading products by between double and four times. Dispersancy is a major feature of Lucas AW Hydraulic Fluids so that lacquer and gums do not accumulate on hydraulic components. Friction modifiers reduce energy consumption and wear-and-tear on expensive components., reducing the likelihood of equipment failure. Copper passivators inhibit corrosion of copper alloys. Finally, Lucas hydraulic fluids are filtered before packaging to an ISO Cleanliness rating of 16/14/11. It is generally acknowledged that suspended particles in hydraulic oil is the major contributor to wear in hydraulic systems.

Hydraulic fluid life varies according to the severity of the operation, but Lucas ISO 46 AW HF will outlast standard hydraulic oil by double, up to 12,000 hours of service.

PART NUMBER AND SIZE:

11286 – 5 Gallon Pail
11287 – 55 Gallon Drum
11288 – 330 Gallon Tote

FEATURES:

- Dispersants – same level as used in premium Automatic Transmission Fluids (ATF)
- Antioxidants
- Copper Passivators (Copper alloy corrosion inhibitors)
- Friction Modifiers
- Four Times more total additive than typical AW HF
- ISO Cleanliness to 16/14/11 by extreme filtration
- Zinc-Free for improved environmental profile

BENEFITS that result from the features listed above:

- Cleaner hydraulic system, from pumps to valves & actuators and hydraulic motors
- Longer fluid life with less lacquer and varnish
- Protection of parts made of copper alloys like brass and bronze
- Less wear-and-tear on the entire hydraulic system
- Less energy consumed in the operation of the hydraulic system due to lower frictional losses

SPECIFICATIONS, APPROVALS AND RECOMMENDATIONS:

Lucas ISO 46 AW HF meets or exceeds all common industry standards, such as: Denison HF-0, HF-1, HF-2; DIN 51506, 51524 Parts 2 and 3; MAG IAS P68, 69 and 70; Eaton 03-401-2010; GM LS-2 (LH-02, 03, 04, 06); USS 126, 127



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TYPICAL PHYSICAL CHARACTERISTICS:

PROPERTIES	ASTM	TYPICAL
API Gravity	D-1298	33.6
Specific Gravity @ 60°F	D-1298	0.856
Density @ 60°F, Lbs/US Gal	D-1298	7.13
Flash Point, PMCC °F	D-93	>400
Viscosity @ 40°C cSt	D-445	45.1
Viscosity @ 100°C cSt	D-445	7.22
Viscosity Index	D-2270	121
Color	Visual	Pale Yellow
ISO Cleanliness Rating	ISO 4406 Particle Count	16/14/11
RPVOT (minutes)	D-2272	544

These characteristics are typical of current production. However, slight variations in these characteristics may occur.

HEALTH, SAFETY AND ENVIRONMENT:

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application.

Health and Safety information is available on the appropriate Safety Data Sheet, which can be obtained from LucasOil.com

LINKS AND ADDITIONAL INFORMATION:

SDS: N/A

Product Image: N/A

Product Label: N/A

MPD: [Click Here](#)