



LUCAS OIL PRODUCTS, INC. PRODUCT DATA SHEET

ZINC-FREE ISO 46 ANTI-WEAR HYDRAULIC FLUID

Lucas Oil Zinc-Free ISO 46 Anti-Wear Hydraulic Fluid is specially formulated to resist oxidation, provide outstanding wear resistance, and deliver superior hydraulic system performance using no zinc or heavy metals.

Lucas Oil Zinc-Free ISO 46 AW Hydraulic Fluid delivers up to 12,000-hour fluid life. This fluid is formulated with proprietary dispersant technology to prevent the accumulation of lacquers and gums on hydraulic components, ensuring clean and smooth system operation. Our unique balance of friction reducing additives and non-Zinc anti-wear chemistry delivers maximum energy efficiency and wear protection across a broad range of operating temperatures. Finally, Lucas Oil hydraulic fluids are filtered before packaging to an ISO Cleanliness rating of 16/14/11, reducing contamination and premature failure due to wear caused by foreign particles.

Lucas Oil Zinc-Free ISO 46 Anti-Wear Hydraulic Fluid provides outstanding performance in both mobile and stationary hydraulic systems, particularly those located outdoors or in marine environments where Zinc-free formulations are desirable for improved environmental performance.

PART NUMBER AND SIZE:

11286 – 5 Gallon Pail

11287 – 55 Gallon Drum

11288 – 330 Gallon Tote

FEATURES:

- Zinc-free formula.
- Polymer modified for improved high temperature film thickness and improved wear protection.
- Specially formulated to deliver up to 12,000-hour fluid service interval.
- Balanced anti-wear and friction reducing formulation for improved energy efficiency and wear protection.
- Outstanding demulsibility and air-release for maximum power transmission.
- Filtered to 16/14/11 ISO Cleanliness Rating.

SPECIFICATIONS, APPROVALS AND RECOMMENDATIONS:

Meets or exceeds all common industry standards, such as: Denison HF-0, HF-1, HF-2; DIN 51506, 51524 Parts 2 and 3; Cincinnati Machine (Fives) P68, 69 and 70; Eaton 03-401-2010; GM LS-2 (LH-02, 03, 04, 06); USS 126, 127

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 .



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TYPICAL PHYSICAL CHARACTERISTICS:

PROPERTIES	ASTM	TYPICAL
API Gravity	D4052	33.6
Specific Gravity @ 60°F	D4052	0.856
Density @ 60°F, lbs/US Gal	D4052	7.13
Flash Point, Closed Cup, °F	D93	>400
Viscosity @ 40°C, cSt	D445	45.1
Viscosity @ 100°C, cSt	D445	7.22
Viscosity Index	D2270	121
Color	Visual	Pale Yellow
ISO Cleanliness Rating	ISO 4406	16/14/11

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

LINKS AND ADDITIONAL INFORMATION:

For additional product or health and safety information, including product Safety Data Sheets, visit [LucasOil.com](https://www.LucasOil.com)