



# LUCAS OIL PRODUCTS, INC. PRODUCT DATA SHEET

## SYNTHETIC NON-CONDUCTIVE ANTI WEAR HYDRAULIC OILS



**Lucas Oil Synthetic Non-Conductive Anti Wear Hydraulic Oils** are specially formulated with pure base oils and a unique additive chemistry to deliver excellent oxidative and thermal stability. They provide excellent wear protection and reduce deposit and sludge formation, debris which can increase the fluid conductivity and danger when used around high voltage electrical equipment. The dielectric strength of 38 kV provides excellent resistance to dielectric breakdown, maintaining the fluid as electrically non-conductive. Our formulation has powerful demulsifiers to shed water and protect the fluid's insulating properties. Our formulation delivers improved filterability to ensure maximum contaminant removal. Dielectric strength is extremely sensitive to humidity as well as water and particle contamination. Containers should be kept tightly sealed and stored in a dry environment until ready for use. Care should be taken when filling hydraulic systems to maintain fluid cleanliness.

**Lucas Oil Synthetic Non-Conductive Anti Wear Hydraulic Oils** are filtered before packaging to an ISO Cleanliness rating of 16/14/11.

### PART NUMBER AND SIZE:

**ISO 22** 10691 – 5 Gallon Pail  
**ISO 22** 10692 – 55 Gallon Drum  
**ISO 22** 11127 – 330 Gallon Tote  
**ISO 32** 11107 – 5 Gallon Pail  
**ISO 32** 11108 – 55 Gallon Drum  
**ISO 32** 11109 – 330 Gallon Tote  
**ISO 46** 10917 – 5 Gallon Pail  
**ISO 46** 11128 – 330 Gallon Tote

### FEATURES AND BENEFITS:

- High dielectric strength of 38 kV to resist dielectric breakdown and remain electrically non-conductive.
- Improved demulsibility and filterability to protect the fluids insulating properties.
- ISO Cleanliness Rating 16/14/11 to protect system components.
- Up to 6000-hour fluid life.

### SPECIFICATIONS, APPROVALS AND RECOMMENDATIONS:

Satisfies the performance requirements of: US Steel 127, 136; Denison HF-0, HF-2; DIN 51524 Part II; Vickers I-286S, M-2950-S; Cincinnati Machine (Fives) P68, P69 and P70. 38 kV according to ASTM D877 (dielectric strength).

### MAIN APPLICATIONS:

Recommended for use wherever non-conductive fluids are required. Typical uses include cherry pickers and firetruck snorkels. High flash point reduces danger of fire.



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## TYPICAL PHYSICAL CHARACTERISTICS:

PROPERTIES	ASTM	ISO 22	ISO 32	ISO 46
API Gravity	D4052	37.7	36.73	35.3
Specific Gravity @ 60°F	D4052	0.837	0.84	0.848
Density @ 60°F, Lbs/US Gal	D4052	6.97	6.97	7.06
Color	D1500	0.5	0.5	0.5
Flash Point, Open Cup, °F	D92	425	425	493
Viscosity @ 40°C, cSt	D445	22	32	46
Pour Point, °C	D97	-21	-21	-15
Foaming Tendency, Sequence II	D892	0/0	0/0	0/0
Dielectric Strength, kV	D877	38	38	45

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)