



TECHNICAL DATA SHEET

GRODAL HYDRA SC 46

HYDRAULIC OIL

DESCRIPTION

Grodal Hydra SC 46 Hydraulic oil is a high-quality antiwear hydraulic fluid developed for use in a wide variety of industrial, mobile and marine hydraulic system applications. It is recommended for use in all types of high-pressure, high-speed hydraulic pumps.

It is formulated with high-quality paraffinic base oils, a zinc dithiophosphate antiwear additive, rust and oxidation inhibitors, and an antifoam agent. It provides excellent wear protection for hydraulic pumps and motors, has excellent oxidation resistance and thermal stability at high temperatures to minimize deposit formation and provide long service life, and protects hydraulic system components against rust and corrosion. It has excellent water-separating properties to minimize the formation of emulsions and is resistant to excessive foam buildup that can cause poor or sluggish hydraulic system response. Grodal Hydra SC 46 oil meets the performance requirements of leading hydraulic pump manufacturer, including Cincinnati Lamb, Oilgear, Parker Hannifin HPD (Formerly Denison Hydraulics), Racine, Sundstrand, Vickers (Eaton) and Voith.

APPLICATION

- Hydraulic systems on industrial, mobile and marine equipment.
- Automated machine tools.
- Hydraulic elevators, hoists, presses and floor jacks.
- Hydraulic systems on mobile construction equipment.
- Marine cargo winches and steering systems.
- Plastic injection molding machines.
- Service station lifts.
- Air tools and other pneumatic equipment lubricated through air line lubricators.
- Chain drives.
- Moderately loaded enclosed industrial gearboxes that do not require an extreme-pressure (EP) gear oil

Grodal Hydra SC 46 oil meets the performance requirements of :

- Denison Hydraulics HF-0, HF-1, HF-2.
- DIN 51524 Part 2, Antiwear Hydraulic Oils, Type HLP (Single Grades)
- ISO 11158:1997 for Hydraulic Fluids, Family H
- U.S. Steel 126, 127, 136
- Vickers (Eaton) M-2950-S, I-286-S

BENEFITS

- Very low viscosity variation with temperature.
- High shear stability
- Outstanding anti-wear performance
- Excellent Filterability
- Oxidation resistant
- Corrosion protection
- Rapid air release and anti-foam properties
- Excellent wear protection for hydraulic pumps and motors
- Excellent water separating properties.

TECHNICAL DATA

Colour & Appearance	:	Clear Liquid
Sp.Gravity @ 30°C	:	0.87
Flash Point COC °C	:	190.
Viscosity @ 40°C	:	46 cSt.
Viscosity Index	:	120
Pour Point °C	:	- 18
NAS	:	6
Copper corrosion	:	1a
Acid No.	:	0.4 Max.
Foam test	:	Passes

RECOMMENDATIONS

Grodal Hydra SC 46 is recommended for all industrial and mobile hydraulic system application. Due to incompatibility of silver and zinc containing oils, Grodal Hydra SC 46 should both be used in systems incorporating silver coated components. Grodal Hydra SC 46 is designed for long service life but it is known that all hydraulic oils eventually degrade due to the effect of oxidation. The symptoms of oil oxidation are an increase in viscosity, increase in acidity or the formation sludge.

SAFETY

This oil is unlikely to present any significant health or safety hazard when properly used in the recommended application as well as good standards of industrial and personal hygiene is maintained. Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Issued on : 23.03.2011

Supersedes all earlier