

Mobilsol A

Cleaning Solvent

Product Description

Mobilsol A is a non-chemical petroleum solvent that dissolves gummy oil oxidation products and loosens insoluble materials in hydraulic and circulation systems. It is noncorrosive and contains an effective rust inhibitor to protect bare metal surfaces. Its high flash point (open cup) of over 116°C makes it safe to use even if heated to 82°C. Its low viscosity helps to lower the viscosity of the flushing oil or circulating oil to which it is added, increasing the effectiveness of the flushing action.

Applications

Mobilsol A solvent may be used in combination with a flushing oil to clean and flush new circulation or hydraulic systems and with existing charges of circulation or hydraulic oils while the system is in operation.

Flushing New Systems: Add five percent by volume of **Mobilsol A** to the flushing oil in circulation and non-servo valve hydraulic systems. Where convenient, heat the mixture to 60°C and circulate it for several hours with the machine unloaded but cycling normally. Inspect and clean screens and filters as needed. Always flush in accordance with manufacturer's recommendations if instructions differ from these. After flushing, drain the system while hot emptying cylinders and draining low spots where possible to remove the flushing charge.

In servo valve systems, do not use **Mobilsol A** without special engineering considerations. In numerically controlled machines or other hydraulic systems with sensitive servo valves, dirt introduced or dislodged by the solvent may jam the extremely close clearance valves and cause a malfunction. Clean these machines strictly in accordance with manufacturer's instructions, which usually recommend removing the servo valves and installing "flushing blocks" (manifolds of straight sections of pipe that allow the fluid to circulate throughout the system when servo valves are removed).

Flushing Systems in Service: The need to flush circulation or hydraulic systems which have been in service for some time may be indicated by:

1. Deposits in the reservoir or on parts in the system.
2. Erratic operation or high oil temperatures.
3. Poor oil condition evidenced by dark color, cloudy appearance, or a pronounced "burned oil" odor.
4. Presence of emulsions or gross contamination.

When added to circulation oil in a five to ten percent by volume proportion **Mobilsol A** will provide the high solvency required to dissolve oxidized oil deposits and loosen insoluble materials. The system may continue in operation for 24 to 72 hours or longer, depending on the amount of deposits. Immediately after shutdown drain the oil while hot to remove most contaminants.

Benefits/Advantages

- Noncorrosive.
- Protects bare metal surfaces against rust.
- High flash point allows safer use even when heated.
- Low viscosity for better flushing action.

Typical Properties

Mobilsol A	
Product Number	680355
Density @ 15°C, kg/l	0.970
Color ASTM	6.0
Pour Point, °C	-29
Flash Point, °C	116
Viscosity, cSt @ 40°C	4.08
Aniline Point, °C	13
Rust Test, ASTM D 665	Pass

Where pump or bearing manufacturers specify a minimum viscosity for the oil in service, calculate the reduction of the oil's viscosity upon addition of **Mobilsol A**. Too low a viscosity could damage system bearings and pumps. In many cases, **Mobilsol A** may be blended with a higher viscosity grade of the oil in service to produce an admixture which will not adversely decrease the system oil's viscosity.

Health and Safety

Based on available toxicological information, these products produce no adverse effects on health when properly handled and used. No special precautions are suggested beyond attention to good personal hygiene, including laundering oil-soaked clothing and washing skin contact areas with soap and water. Additional health and safety information on these products, including a Mobil Material Safety Data Bulletin, is available on request from your local Mobil Sales Office.

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