Ωmega®
The Ultimate Lubricant

# 606

OMEGA 606 Multi-Grade Hydraulic Oil

## Multi-Grade Hydraulic Oil

TRUST OMEGA TO

*Save Money*
*Enhance Performance*
*Extend Service Life*

- *Genuine Multi-Grade Formulation Fitting Multi-Metal & Close Tolerance Hydraulic Systems*
- *Superior Resistance Against Oxidation, Wear & Thermal Degradation*
- *Minimize Deposit & Sludge Formation - Cleaner Hydraulic Systems*
- *Ultimate Lubrication Solution and Protection for Hydraulic Systems*

ITW PERFORMANCE POLYMERS & FLUIDS®
KOREA

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# SPECIAL FEATURES

**OMEGA 606 Multi-Grade Hydraulic Oil** is a high performance, high viscosity, multi-grade hydraulic oil fitting most hydraulic systems made by major European, US and Japanese manufacturers.

- **OMEGA 606** extends oil and equipment lifetime with top lubricity
- **OMEGA 606** promotes cleaner hydraulic systems with anti-deposit and anti-sludge formulation
- **OMEGA 606** genuine performance versatility ensures application on different hydraulic systems and help reduce plant's overall inventory costs

606

# OUTSTANDING PROPERTIES

Formulated with premium base stock **OMEGA 606** offers the following outstanding performance characteristics:

- Excellent thermal stability and outstanding anti-wear and anti-corrosion properties
- High viscosity index with high shear stability
- Proprietary additive package enhanced with OMEGA *Megalite*k supplement
- Fortified with special metal deactivators for ultimate protection against metal-to-metal contact
- Neutralizes & prevents acid build-up and inhibits oxidation

# USE FOR

**OMEGA 606 Multi-Grade Hydraulic Oil** is engineered to satisfy the most demanding lubrication needs in hydraulic systems. **OMEGA 606** is widely used by engineers & maintenance professionals on:

- High performance hydraulic systems and components of equipment produced by major European, US and Japanese manufacturers
- Hydraulic systems with multi-metal designs or close tolerance designs
- Hydraulic systems subject to wide temperature fluctuations
- Gears and bearings of hydraulic systems
- On and off-highway equipment including those used in construction, mining, quarrying, trucking, and agriculture

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## DESCRIPTION:

Omega 606 is a high viscosity, multi-grade hydraulic oil, with a greater film strength than ordinary hydraulic oils. Omega 606 has been designed to function with superior results, without change, for 10 years.

## TEMPERATURE RESISTANCE:

Omega 606 serves to minimize wear and frictional energy take-up by resisting temperature build-up. Some hydraulic oils are made from Iranian heavy crude, Nigerian crude, Qatar crude, Ratawi crude, or other such low quality oils which are prone to large temperature fluctuations. This results in pressure loss, unnecessary energy intake and slow, sluggish response.

## VISCOSITY:

Omega 606 is highly viscous, so unlike ordinary hydraulic oils which are made from naphthenic crude, refined-waste or low-grade sulphur oils, Omega 606 ensures constant pressure, high volumetric efficiency, an absence of slippage and sound application.

## LUBRICITY:

The oil in a hydraulic system must also provide excellent lubrication of moving parts. Omega 606 lubricates the friction-prone areas, and therefore facilitates motion. A special paraffinic mineral base oil makes Omega 606 a superior hydraulic oil.

## OXIDATION AND WEAR RESISTANCE:

Omega 606 is a high grade oil that combats oxidation, where low grade oils have an acidic build-up (leading to corrosion of the entire hydraulic system), Omega 606 has a very low pH, and therefore there is no acid build-up and no resultant oxidation. Omega 606 is also fortified with special metal deactivators, and these, combined with its exceptional lubrication abilities, lessen metal-to-metal contact and reduce wear to a minimum.

## TYPICAL DATA:

| TEST | ASTM TEST METHOD | TEST RESULT |
|---|---|---|
| | | SAE10W40 |
| ISO Viscosity Grade | D-2422 | 100 |
| Appearance | Visual | Red |
| Density, Kg/L @ 15°C | D-1298 | 0.890 |
| Viscosity, cSt @ 40°C | D-445 | 97 |
| Viscosity, cSt @ 100°C | D-445 | 14.3 |
| Viscosity Index | D-2270 | 152 |
| Flash Point, COC, °C | D-92 | 240(464) |
| Pour Point, °C | D-97 | -33(-27) |
| Total Acid Number, mg KOH/g | D-974 | 0.60 |


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| TEST | ASTM TEST METHOD | TEST RESULT SAE10W40 |
|---|---|---|
| Foaming Characteristics - | | |
| All Sequences, After Settling | D-892 | Nil |
| Rust Preventing Characteristics - | | |
| Saltwater after 48 hrs @60°C | D-665 | Pass |
| Oxidation Characteristics - Hours to TAN 2.0 | D-943 | >2000 min. |
| Aniline Point, °C(°F) | D-611 | 102(215) |
| Ash, Sulphated, % Mass | D-874 | 0.071 |
| Zinc, % Mass | AA | 0.040 |
| Shear Stability, Viscosity Loss @ 40°C | DIN 51382 | 3.3 |
| Shear Stability, Viscosity Loss @ 100°C | DIN 51382 | 3.3 |
| Wear Tests/EP | | |
| Pump Type | Vickers 104C | Pass |
| Pump Type | Vickers 35VQ25 | Pass |
| Pump Type | Denison T5D | Pass |
| Pump Type | Denison P46 | Pass |
| Poclain | Poclain | Pass |
| Racine | Racine | Pass |
| Air Entrainment (Pass, <6000) | DIN-51381 | 180 |
| Filterability, Wet/Dry Ratio (Pass, <2.0) | Denison 1.2u | 1.36 |

The characteristics given above are typical of current production only and slight batch to batch variations should be expected.

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