



# 612

OMEGA 612 Universal Lubrication & Hydraulic Oil



## Universal Lubrication & Hydraulic Oil

- *Truly multi-purpose – has thousands of uses.*
- *Anti-magnetic formulation – will not attract metallic dust & particles.*
- *Superb lubrication – contains anti-wear & anti-rust additives for consistent, long-lasting protection.*

TRUST OMEGA TO Save Money Enhance Performance Extend Service Life



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PERFORMANCE  
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## OMEGA ULTIMATE LUBRICANTS

## SPECIAL FEATURES

**Omega 612 Universal Lubrication & Hydraulic Oil** is the premium circulating, hydraulic and general-purpose lubricant that stands up to the most arduous service conditions.

- **Omega 612** is a truly multi-purpose lubricant – has thousands of uses.
- **Omega 612** features an anti-magnetic formulation – will not attract metallic dust and particles.
- **Omega 612** gives superb lubrication – contains anti-wear and anti-rust additives for consistent, reliable, long-lasting protection.

## OUTSTANDING PROPERTIES

**Omega 612** is the universal lubrication and hydraulic oil that:

- Has a high viscosity index – viscosity remains constant throughout temperature fluctuations and retains its texture regardless of varied conditions.
- Contains anti-foam additive to effectively prevent formation of foam – even at elevated temperatures.
- Contains special supplements to promote interface tenacity and hold the lubricant in position – resists migration and fling-off.
- Is made from only the finest base oil stocks available – withstands extreme pressure.

## USE FOR

**Omega 612** has a high viscosity index to ensure a strong oil film and a low pour point to ensure excellent performance in even the most difficult operating conditions.

Use **Omega 612** for:

- Chain Drives • Bearings • Gears • Electric Motors • Lathes
- Enclosed Gears • Hydraulic Equipment • Torque Converters • "Poclain" Hydraulics • And complete lubrications of all factory equipment.



**Omega**

*The Ultimate Lubricant*

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*The Ultimate Lubricant*

# 612

## **VISCOSITY STANDARD:**

Omega 612 Universal Lubrication & Hydraulic Oil has a highly stable viscosity standard. It remains constant throughout temperature fluctuations and retains its texture regardless of varied conditions.

## **ANTI-WEAR:**

Omega 612 has a number of easily recognizable advantages over ordinary 'oil-can' oils used in the workshop. One such advantage is its special ability to resist wear. It contains special built-in wear inhibitors that actually surface-alloy the frictional area and prevent direct interfacial contact!

## **FOAM-INHIBITED:**

Ordinary oils tend to aerate, causing an influx of oxygen into the equipment. Oxygen is the carrier of corrosive oxidation and oxidation causes equipment deterioration and, eventually, costly breakdown!

## **ANTI-MAGNETIC:**

Omega 612 is anti-magnetic. It does not attract metallic dust and magnetic particles. Omega 612 actually forms a fine film 'skin' that keeps such contamination and dust out of the lubricant and, therefore, away from the interfacial areas.

## **NOTE:**

Ordinary general-purpose workshop lubricants are often electro-statically based. They form a minor but destructive magnetic field which 'draws' airborne particles into the lubricant. This causes untold contamination problems as well as the formation of an abrasive fluid that is constantly fed into valuable equipment. The abrasion promotes wear. Wear requires replacement. Replacement needs time. Time costs money!

## **LONG LASTING:**

Surface migration (moving off or away from the frictional interface) is a major characteristic of ordinary oils currently used in workshops and factories for general-purpose applications. Omega 612 however, contains special supplements designed to promote interface tenacity and actually hold the lubricant in position and prevent migration.

## **EXCELLENT BASE OIL:**

The character of a good lubricant is measured by the type of base oil the manufacturers have used to produce it. Most oils are wax-based or they use easily solidified naphthenic-base oil, which are known to promote oxidation. Omega 612 is, however, only made from the finest base stocks available.

## **RAPID WATER SEPARATION:**

Water is a combination of hydrogen and oxygen. Since oxygen is the major cause of oxidation, it is not unreasonable to suggest that water also causes oxidation. Ordinary oils however, have a tendency to emulsify with water and carry it through the system. This creates inner corrosion which, like cancer, does its damage away from visual checking capabilities. Omega 612 has built-in anti-emulsifiers which positively prevent water infusion.

## **HIGH E. P. PROFICIENCY:**

Omega 612 easily tolerates excessive instantaneous loads frequently encountered during normal industrial use.

## OPERATION RANGE:

Omega 612 has a high viscosity index and a low pour point coupled with ideal operating spans to give quality results.

## APPLICATIONS:

Omega 612 is ideally suited for:

|                            |                      |
|----------------------------|----------------------|
| Chain Drives,              | Bearings,            |
| Electric Motors,           | Lathes,              |
| Reciprocating Compressors, | Enclosed Gears,      |
| Rotary Compressors,        | Hydraulic Equipment, |
| Torque Converters,         | 'Poclain' Hydraulics |

and complete lubrication of all factory equipment.

Omega 612 meets & exceeds the following specifications:

- GM LS-2
- MIL-H-17672
- AFNOR NF E 48-690, 691 filterability

## TYPICAL DATA:

| TEST                              | ASTM TEST METHOD | TEST RESULT  |              |              |             |             |
|-----------------------------------|------------------|--------------|--------------|--------------|-------------|-------------|
|                                   |                  | SAE 5        | SAE 10       | SAE 20       | SAE 30      | SAE 40      |
| ISO Viscosity Grade               | D-2422           | 15           | 32           | 68           | 100         | 150         |
| Appearance                        | Visual           | Light Yellow | Light Yellow | Light Yellow | Light Amber | Light Amber |
| Density, Kg/L @ 15°C              | D-1298           | 0.843        | 0.867        | 0.870        | 0.872       | 0.882       |
| Viscosity, cSt @ 40°C             | D-445            | 15.0         | 32.0         | 68.0         | 100         | 150         |
| Viscosity, cSt @100°C             | D-445            | 3.5          | 5.4          | 8.7          | 11.3        | 14.8        |
| Viscosity Index                   | D-2270           | 106          | 106          | 105          | 101         | 101         |
| Flash Point, COC, °C(°F)          | D-92             | 220          | 216          | 243          | 261         | 264         |
| Pour Point, °C                    | D-97             | -31          | -21          | -27          | -27         | -24         |
| Aniline Point, °C                 | D-611            | 97           | 116          | 118          | 111         | 113         |
| Foaming Characteristics -         |                  |              |              |              |             |             |
| All Sequences, After Settling     | D-892            | Nil          | Nil          | Nil          | Nil         | Nil         |
| Rust-Preventing Characteristics - |                  |              |              |              |             |             |
| Salt Water, 48 hrs.               | D-665            | Pass         | Pass         | Pass         | Pass        | Pass        |
| Oxidation Characteristics -       |                  |              |              |              |             |             |
| TOST life, hours                  | D-943            | >5000        | >5000        | >5000        | >5000       | >4000       |
| Zinc % Mass                       | -                | 0.027        | 0.027        | 0.027        | 0.027       | 0.027       |

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