

#### **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.



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## **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:**

TEOT	ASTM	TEST RESULT					
TEST	TEST METHOD	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.



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