

Omega 606

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.

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.

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.

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	SAE10W40
ISO Viscosity Grade	D-2422	100
Appearance	Visual	Red
Density kg/L @ 15.0°C	D-1298	0.890
Viscosity, cSt @ 40°C	D-445	97
@100°C	D-445	14.3
Viscosity Index	D-2270	152
Flash Point, COC, °C(°F)	D-92	240(464)
Pour Point, °C(°F)	D-97	-33(-27)
Total Acid Number, mg KOH/g	D-974	0.60
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
@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

MAGNA INDUSTRIAL CO. LIMITED

Total Quality Maintenance

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E-Mail: magna@magnagroup.com Web Site: www.magnagroup.com

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MATERIAL SAFETY DATA SHEET

DATE 01 Aug 2014

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name/Code Omega 606

Company Identification

Omega Manufacturing Division,
Magna Industrial Co. Limited,
1801, Guardian House,
32 Oi Kwan Road,
Wanchai, Hong Kong.

Distributor

Alshawi Trading,
Block 351, Road 51, Bldg 20, Manama - Bahrain.
www.alshawitrading.com
info@alshawitrading.com
P.O.Box 33526

Telephone (852) 25775187
Fax (852) 25773190

Telephone (973) 1755 0019
Fax (973) 1755 5108

SECTION 2 - HAZARDS IDENTIFICATION

Not classified as hazardous.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS Number</u>	<u>Wt.%</u>	<u>Classification</u>
Highly refined mineral oil**	64742-65-0	60-100	-

SECTION 4 - FIRST-AID MEASURES

Eye Contact: Flush with plenty of water for at least 15 minutes. Seek immediate medical attention.

Skin Contact: Wash thoroughly with soap and water. Obtain medical attention in case of skin irritation or other cause for concern.

Inhalation: Move patient to open air.

Ingestion: Do not induce vomiting. Seek immediate medical attention.

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SECTION 5 - FIRE-FIGHTING MEASURES

Extinguishing Media: Dry chemical, waterfog, foam, sand and carbon dioxide.

Special Protective Equipment for Fire Fighters: Self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Dense smoke. Carbon dioxide, carbon monoxide.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spillage: Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, vermiculite. Sweep up and dispose of in accordance with local and national regulations.

SECTION 7 - HANDLING AND STORAGE

Keep containers closed. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Wash clothing before reuse. Keep away from feed and food products.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ACGIH TLV

Highly refined mineral oil 5 mg/m³ (oil mist)

Eye Protection: Safety goggles and full face shield

Hand Protection: Rubber or plastic oil resistant gloves.

Ventilation: Use under well ventilated conditions.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Red coloured liquid

Odour: Mineral oil odour

pH: N.A.

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Specific Gravity: 0.90
Vapour Pressure: N.A.
Boiling Point: N.A.
Melting Point: N.A.
Flash Point: above 100°C
Flammability: N.A.
Evaporation Rate: N.A.
Solubility in Water: Insoluble

SECTION 10 - STABILITY AND REACTIVITY

Stable under normal condition.

Materials to Avoid: Strong oxidizing agents, hydrogen peroxide, chromic acid, bromine.

Toxic compounds may form on thermal decomposition. Hazardous combustion products: carbon monoxide, carbon dioxide.

SECTION 11 - TOXICOLOGICAL INFORMATION

There is no lethal dose information available.

Inhalation: Inhalation of vapours can cause irritation of the respiratory tract. High concentrations of oils, mists or vapours can cause chemical pneumonitis.

Skin: May cause irritation, drying and cracking.

Eyes: Cause irritation.

Ingestion: May cause irritation in mouth and stomach, thirst, nausea, vomiting, diarrhoea, with possible collapse if large amounts ingested. Aspiration of material upon vomiting may cause chemical pneumonitis.

SECTION 12 - ECOLOGICAL INFORMATION

No ecological information is available at present.

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SECTION 13 - DISPOSAL CONSIDERATIONS

Comply with all local and national regulations regarding disposal.

SECTION 14 - TRANSPORT INFORMATION

UN Number : Not regulated

IATA Class : Not regulated, Packing Group: Not regulated

IMDG Class : Not regulated, Packing Group: Not regulated

Not considered hazardous for transport purpose.

SECTION 15 - REGULATORY INFORMATION

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SECTION 16 - OTHER INFORMATION

R-phrases: -

S-phrases: -

**The highly refined mineral oil used in this product contains less than 3% DMSO extract as measured by IP 346.

Remarks: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.