MOBIL DTE XL™ SERIES

Mobil Industrial , Japan

Hydraulic Oils

Product Description

Mobil DTE XL™ Series oils are superior performance hydraulic oils developed for use in high-speed, high-pressure piston, vane and gear pumps. They are formulated from high quality base stocks and specially selected super-stabilised additives. Their advanced technology ashless anti-wear additive system was developed to give exceptional corrosion protection for copper-based alloys in severe hydraulic applications such as high-pressure axial piston pumps. This unique additive system also gives the Mobil DTE XL Series excellent compatibility with coolants used in metal working applications.

The Mobil DTE XL Series oils exhibit excellent oxidation and thermal stability properties which can help to provide extended oil and filter life, as well as optimum equipment protection, thereby reducing both maintenance and product disposal costs. They were developed in conjunction with the major OEMs to meet the stringent requirements of severe hydraulic systems using high pressure, high output pumps as well as handling the critical requirements of other hydraulic system components such as close clearance servo-valves and the high accuracy numerically controlled (NC) machine tools. They are designed to work with systems operating under moderate to severe conditions where high levels of anti-wear and film strength protection are needed, yet they are formulated to work where non-anti-wear hydraulic oils are generally recommended.

Features and Benefits

The Mobil XL Excel Series hydraulic oils exhibit outstanding high temperature performance providing an extra margin of equipment protection. Their excellent oxidation resistance and thermal stability characteristics can lead to extension of oil and filter change intervals and help to provide exceptionally clean systems and trouble-free operation. Their high level of anti-wear properties and excellent film strength characteristics can lead to exceptional equipment performance that can not only result in fewer breakdowns, but can help to improve production capacity. Their controlled demulsibility permits the oils to work well in systems contaminated with small amounts of water, yet readily separate large amounts of water readily.

Features	Advantages and Potential Benefits
Unique Ashless Anti-wear Additives	Reduced wear Improved coolant compatibility Protects systems using various metallurgy
Outstanding Thermal and Oxidation Stability	Provides long oil and equipment life Reduced deposits and sludge formation Extends filter life
Excellent Corrosion Protection	Prevents internal hydraulic system corrosion Reduces negative effects of moisture in systems Provides corrosion protection of multi-metallurgy component designs
Very Good Multi-metal Compatibility	Assures excellent performance of various components Reduces requirements for additional products
Meets a Wide Range of Equipment Requirements	One product can replace several Minimises inventory requirements Reduced potential for product misapplication
Controlled Demulsibility	Protects systems where small quantities of moisture are present Readily separates larger quantities of water

Features	Advantages and Potential Benefits
Very Good Coolant Separability	Improved coolant batch life Reduced maintenance costs

Applications

- Hydraulic systems critical to deposit build-up such as sophisticated Numerically Controlled (NC) machines, particularly where close clearance servo-valves are used
- Systems employing multi-metal designs in pumps and other system components
- Applications where cross-contamination of hydraulic fluids and coolants can occur
- High pressure vane, piston and gear pumps
- Systems where very high operating temperatures are typical
- Where small amounts of water are unavoidable
- In systems containing gears and bearings
- Systems requiring a high degree of load-carrying capability and anti-wear protection
- Applications where thin oil-film corrosion protection is an asset such as in systems containing moisture

Specifications and Approvals

This product meets or exceeds the requirements of:	MOBIL DTE XL 22
DIN 51524-2:2006-09	X

Properties and Specifications

Property	MOBIL DTE XL 22	MOBIL DTE XL 32	MOBIL DTE XL 46	MOBIL DTE XL 68	MOBIL DTE XL 100
Grade	ISO 22	ISO 32	ISO 46	ISO 68	ISO 100
Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130	1A	1B	1A	1B	1A
Flash Point, Cleveland Open Cup, °C, ASTM D92	214	228	234	250	260
Foam, Sequence I, Stability, ml, ASTM D892	0	0	0	0	0
Foam, Sequence I, Tendency, ml, ASTM D892	10	30	10	0	20
Foam, Sequence II, Stability, ml, ASTM D892	0	0	0	0	0
Foam, Sequence II, Tendency, ml, ASTM D892	10	20	20	30	20
Foam, Sequence III, Stability, ml, ASTM D892	0	0	0	0	0
Foam, Sequence III, Tendency, ml, ASTM D892	20	30	10	0	20
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	22.4	31.5	43.5	64.8	91.5

Property	MOBIL DTE XL 22	MOBIL DTE XL 32	MOBIL DTE XL 46	MOBIL DTE XL 68	MOBIL DTE XL 100
Pour Point, °C, ASTM D97	-35	-25	-25	-20	-24
Rust Characteristics, Procedure A, ASTM D665	PASS	PASS	PASS	PASS	PASS
Viscosity Index, ASTM D2270	112	108	109	106	99

Health and Safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ http://www.msds.exxonmobil.com/psims/psims.aspx

04-2024

ExxonMobil Japan Godo Kaisha

Shinagawa Grand Central Tower

2-16-4, Konan, Minato-Ku,

Tokyo, 108-8218,

Japan

Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.