

JMN SPECIALTIES, INC.

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PRODUCT BULLETIN

MIL-DTL-32353

Hydraulic & Lubricating Oil, Synthetic Hydrocarbon Base

General Description

This specification covers a single classification of synthetic steam turbine, hydraulic, and gear lubricating oil, moderate service, for use in main and auxiliary turbines, gears, air compressors, and certain hydraulic equipment, as well as for general mechanical lubrication, on non-nuclear ships. Due to its synthetic base stock, this oil could offer improved performance in certain applications currently utilizing MIL-PRF-17331 (2190 TEP) where long-term operational life and/or oxidative stability is desired, such as in High Pressure Air Compressors (HPACs).

MIL-DTL-32353 Synthetic Oil can replace the Navy's existing MIL-PRF-17331 (2190 TEP) petroleum-based oil to primarily reduce long-term maintenance costs, decrease operational failures, improve safety, and widen the performance boundaries of submarines and ships. This technology enables Fleet commands to operate in colder environments, run their engines at higher temperatures, and react faster to threats because synthetic oil improves overall motion control, propulsion, weapons, and acoustic systems. **MIL-DTL-32353** Synthetic Oil reduces onboard fire hazards, maintains stability over large temperature changes and resists moisture contamination (corrosion) and oxidation as well as significantly extended duration between oil changes by at least a factor of two which will result in less corrective machinery downtime due to carbon and varnish build-up.

Application

To convert to **MIL-DTL-32353** Hydraulic & Lubricating Oil, Synthetic Hydrocarbon Base, refer to operating manuals for the specific equipment.

Physical Properties*

| | |
|-----------------------|--------------------------------|
| Appearance / Odor | Clear Amber Liquid / Mild Odor |
| Density | 0.83 – 0.85 |
| Flash Point | > 266°C |
| Viscosity @ 40°C, cSt | 77 - 97 |
| @ 100°C, cSt, min | 11 |

*Full testing results available on the Certificate of Analysis provided with each product lot.

Availability

MIL-DTL-32353 is available in 5 gallon pails, 55-gallon drums, tote tanks, and bulk quantities.

Handling

Observe warning label on containers. Normal precautions for industrial chemicals apply. This document does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this product to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

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