



# **UNITED XD 8000**

### **Product Description**

Hydrotreated Diesel Engine Oil designed to meet the lubrication requirements of most diesel engines. It provides outstanding protection for engines operating at high temperature.

This engine oil is a performance product which is optimized to provide maximum control of carbon deposit, minimum oil consumption and best neutralizing ability for not only new engine designs, but also some diesel engine types designed in the early 80's. Its high alkaline reserve neutralizes harmful combustion by-products when burning relatively low quality diesel with higher sulfur content. It also performs equally well in many types of gasoline engines, giving mix fleet operators a high performance product for widest usage coverage.

#### **Applications / Benefits**

- \* Minimize oil consumption
- Protects against ring and cylinder wear \*
- \* Keeps piston clean
- \* Neutralizes acids from high sulfur fuel

#### **Typical Characteristics**

Test Description	Method	Unit				
SAE Viscosity Grade	SAE J 300	-	40	50	10W-30	10W-40
Density @ 15 °C	ASTM D 4052	kg/L	0.885	0.892	0.869	0.866
Flash Point	ASTM D 92	°C	236	248	210	220
Pour Point	ASTM D 97	°C	-15	-12	-30	-30
Kinematic Viscosity @ 40°C	ASTM D 445	cSt	138.6	220.9	72.9	97.7
Kinematic Viscosity @ 100°C	ASTM D 445	cSt	14.8	19.5	11.2	14.8
Viscosity Index	ASTM D 2270	-	108	100	145	158
TBN	ASTM D 2896	mgKOH/g	10.2	10.2	10.2	10.2

ISSUED BY UNITED OIL COMPANY PTE. LTD. TEL: (65) 6861 1157 FAX: (65) 6861 3101

www.united-oil.com

ISSUED BY UNITED OIL COMPANY PTE. LTD. TEL: (65) 6861 1137 FAX: (65) 6861 3101 WWW.united-oil.com Furnishing the information contained herein does not constitute a representation by United that any product or process is free from patent infringement claims of any third party nor does it constitute the granting to a license under any patent of United or any third party. United assumes no liability for any infringement which might arise out of product. The information and suggestions for use and application presented herein represent the best information available to us and believed to be reliable. They should not, however, be construed as controlling suggestions, and users urged to conduct confirmatory test to determine final suitability for their specific end uses. United warranty only that its product meet the specifications which it sets for them and specifically DISCLAIMS ALL OTHER WARRANTS relating to the products and the application thereof. EXPRESS or IMPLIED including but not limited to warrants of MERCHANTABILITY and FITNESS.



# **Typical Characteristics**

Test Description	Method	Unit		
SAE Viscosity Grade	SAE J 300	-	<b>15W-40</b>	<b>20W-50</b>
Density @ 15 °C	ASTM D 4052	kg/L	0.877	0.879
Flash Point	ASTM D 92	°C	222	242
Pour Point	ASTM D 97	°C	-24	-18
Kinematic Viscosity @ 40°C	ASTM D 445	cSt	115.1	175.1
Kinematic Viscosity @ 100°C	ASTM D 445	cSt	15	18.8
Viscosity Index	ASTM D 2270	-	135	121
TBN	ASTM D 2896	mgKOH/g	10.2	10.2

## **Specifications, Approvals & Recommendations**

\* API

CF-4/SG

Reference No. 4160G2CF4SGREV0 Last revised date: 4/7/2023

ISSUED BY UNITED OIL COMPANY PTE. LTD. TEL: (65) 68611157 FAX: (65) 68613101 www.united-oil.com Furnishing the information contained herein does not constitute a representation by United that any product or process is free from patent infringement claims of any third party nor does it constitute the granting of a license under any patent of United or any third party. United assumes no liability for any infringement which might arise out of product. The information and suggestions for use and application presented herein represent the best information available to us and believed to be reliable. They should not, however, be construed as controlling suggestions, and users urged to conduct confirmatory test to determine final suitability for their specific end uses. United warranty only that its product meet the specifications which it sets for them and specifically DISCLAIMS ALL OTHER WARRANTS relating to the products and the application thereof. EXPRESS or IMPLIED including but not limited to warrants of MERCHANTABILITY and FITNESS.