

# UNITED HYDRO 600 PLUS (SHPD)

## Product Description

Synthetic Diesel Engine Oil utilizing a Super High Performance Diesel (SHPD) technology delivering outstanding performance and durability. Developed to provide the ultimate protection for low-emission heavy duty engines fitted with diesel particulate filters and other exhaust after-treatment devices, as well as providing the ultimate performance and protection for older engines from Europe, USA and Japan.

## Applications / Benefits

- \* Minimizes oil consumption, long drain interval
- \* Superior protection against valve train wear
- \* Neutralizes acids from high sulfur fuel
- \* Particularly suitable for diesel engines equipped with EGR

## Typical Characteristics

Test Description	Method	Unit			
SAE Viscosity Grade	SAE J 300	-	<b>10W30</b>	<b>10W40</b>	<b>15W40</b>
Density @ 15 °C	ASTM D 4052	kg/L	0.862	0.863	0.866
Flash Point	ASTM D 92	°C	214	218	220
Pour Point	ASTM D 97	°C	-36	-33	-27
Kinematic Viscosity @ 40°C	ASTM D 445	cSt	71.1	101.3	104.1
Kinematic Viscosity @ 100°C	ASTM D 445	cSt	11.6	15.07	14.62
Viscosity Index	ASTM D 2270	-	158	156	145
TBN	ASTM D 2896	mgKOH/g	11.1	11.1	11.1
CCS	ASTM D 5293	cP	≤7000	≤7000	≤7000

## Specifications, Approvals & Recommendations

	<b>10W30</b>	<b>10W40</b>	<b>15W40</b>
* API	CI-4/SL	CI-4/SL	CI-4/SL
* ACEA	-	E7	E7
* CATERPILLAR	ECF-1A	ECF-1A	ECF-1A
* CATERPILLAR	ECF-2	ECF-2	ECF-2
* CUMMINS	CES 20078	CES 20078	CES 20078
* CUMMINS	-	CES 20077	CES 20077
* DETROIT DIESEL	-	-	DFS 93K215
* DEUTZ	-	-	DQC-III
* JASO	DH-1	-	DH-1
* MACK	-	EO-N	EO-N
* MACK	EO-M PLUS	EO-M PLUS	EO-M PLUS
* MAN	-	M3275	M3275
* MERCEDES BENZ	-	228.3	228.3
* MTU	-	CATEGORY 2	CATEGORY 2
* RENAULT	-	RLD-2	RLD-2
* VOLVO	-	VDS-3	VDS-3

Reference No.  
5183G23CI4SLDREV0

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