

ONYX 89555

Passenger Car & Heavy Duty Diesel Engine Oil Additive

DESCRIPTION

ONYX 89555 is a multifunctional performance package based on leading MID SAPS technology. It is a core package that contains the key building blocks necessary to formulate a wide range of engine oils. It Combines most of the global heavy duty diesel and PCMO requirements of ACEA and API claims in a single, high performance package. ONYX 89555 provides improved high temperature deposit build up protection for pistons and turbochargers, stringent sludge control, improved fuel economy, enhanced emission control system protection and seal compatibility.

PERFORMANCE

When blended with appropriate base oils and viscosity modifier, the lubricant meets the following performance profiles. Please consult with ONYX representative for more details about SAE grades, proper volatility, shear stability, HTHS and other parameters required for specific applications and performance claims.

Weight Treat 8.2 Wt.%

API SN/ GF-5

Weight Treat 9.4 Wt.%

API SN/ GF-5, DEXOS1

Weight Treat 8.6 Wt.%

API SN/ GF-5
ACEA C2/C3-12
MB 229.31, MB 229.51, MB 229.52
GM Dexos 2
VW 502.00, 505.01, VW 504.00, 507.00 (SAE 5W-30)
BMW LL04
Porche C30
JASO DL-1

Weight Treat 8.7 Wt.%

API SN/ GF-5
ACEA A5/ B5
Chrysler 6395
GM 6094M, GM 4718M
Ford WSS M2C946-A, Ford WSS M2C929-A
HONDA/ACURA HTO-06

Weight Treat 8.7 Wt.% + 1.2 Wt.% ONYX 7911HN

API CJ-4/ SN
ACEA E6-12, ACEA E9-12, ACEA E7-12
MB 228.51, 228.31
MAN M 3477/ M 3271-1/ M 3677, MTU Type 3.1
Volvo VDS-3/VDS-4, Volvo CNG, Renault RGD/ RXD/ RLD/ RLD-2/ RLD-3
Mack EO-M Plus/ EO-N Premium Plus/ EO-O Premium Plus-07
JASO DH-2, CAT ECF-3, Deutz DQC IV-10 LA
Detroit Diesel DDC 93K218, Cummins CES 20081.

PHYSICAL / CHEMICAL CHARACTERISTICS

Parameters	Test Methods	Specifications	Typical Value
Viscosity@ 100°C, cSt	ASTM D445	Report	75
BN, mgKOH/g	ASTM D2896	> 92	93
Calcium, %Wt.	ASTM D4951	1.80 – 2.55	2.24
Zinc, %Wt.	ASTM D4951	0.83 – 1.11	0.97
Phosphorus, %Wt.	ASTM D4951	0.82 – 0.97	0.90
Molybdenum, %Wt.	ASTM D5185	min 0.0870	0.09
Sulfur, %Wt.	ASTM D4951	Report	2.40
Nitrogen, %Wt.	ASTM D5291	1.0 – 1.50	1.29
Sulphated Ash, %Wt	ASTM D874	-	9.2

GENERAL HANDLING INSTRUCTIONS

Neoprene or nitrile rubber gloves and safety goggles should be worn for handling. Material safety data sheet should be consulted for specific information and for information on health and safety.

Temperature Recommendations

Unloading:	Temperature	
Pumping temperature	60°C	140°F
Maximum temperature	70°C	158°F
Storage:		
Maximum temperature for long term storage	45°C	113°F
Blending:		
Max. Base oil temperature for mechanical or in-line mixing	70°C	158°F

Equipment Recommendations:

Type of Pump	Positive Displacement
Type of transfer line	Ball lunched, Insulated, Steam Traced Using 107°C/225F Steam Max.
Transfer Line Size	3inch/8cm. min.

Heat Source:

Type	Steam 107°C/225°F max.
Storage Tank	Suction Heater Recommended