# Atom AC-1910 Heavy Duty Diesel Engine Oil Additive

**AC-1910** An engine oil additive for the formulation of Super High-Performance Diesel (SHPD) lubricants meeting the requirements of ACEA E7-12, MB 228.3, VDS-3 & API CI-4 or CH-4

@ 11.5% with G-II base oils.

### **APPLICATIONS**

**AC-1910** has been designed for formulating premium quality SHPD engine oils. Performance has also been established against a range of major European and US specifications. This product is designed to provide robust performance against specific market profile within the heavy-duty sector in cost-effective product formulations. In addition to the individual core products designed to meet key market profiles, AC-1910 is there to cover all these profiles at different treat rates in a simple cascade scheme. RECOMMENDED DOSAGE CI-4 or CH-4 11.5 wt %

Performance Level	Treat Recommendation %wt
	AC-1910
API CI-4/CH-4	11.50%

OEM Performance	
ACEA E7-12	CATERPILLAR ECF-1a
VOLVO VDS-3	DEUTZ DQC II-10
MACK EO-N/EO-M Plus	GLOBAL DHD-1
MB 228.3	ALLISON C4 (LEVEL)
MAN M3275-1	CUMMINS CES 20076/71/72 GP-1
MTU TYPE 2	DETROIT DIESEL DDC 93K215

Typical Characteristics		
Characteristics	Typical Value	
Appearance	Brown Viscous Liquid	
Density @ 15°C, Kg/m3	0.960	
Viscosity @ 100°C, cSt	146	
Viscosity @ 40°C, cSt	2985	
Flash Point, COC, °C	182	
Pour Point, °C	-18	
Calcium, % weight	0.89	
Molybdenum, ppm	0.042	
Zinc, % weight	1.18	
Phosphorus, % weight	1.08	
Nitrogen, % weight	0.70	
Sulfur, % wei <mark>ght</mark>	2.65	
Magnesium % weight	0.84	
TBN, mg KOH/g <mark>m</mark>	80	

## HANDLING INFORMATION

Recommended maximum blending temperature is 65°C For best result in blending add first VI Improver and then DDI Packages. Please refer to the corresponding material safety data sheet for handling and blending precautions and maximum recommended temperatures

 STORAGE
 HANDLING

 60-80°C (140-176°F)
 80-90°C (176-194°F)

### SAFETY INFORMATION

For more extensive information on safe handling and use of this product, see the Safety Data Sheet.

# SHIPPING INFORMATION

Tank Cars, Tank Trucks and non-returnable 55-gallon steel drums.