



When Quality Matters...



GARS LUBRICANTS

Manufacturer and Suppliers of Engine Oil ,Oil Additives, Lubricating Oil, Base Oil

POT 3220 ENGINE OIL ADDITIVE DI PACKAGE CI4+

INTRODUCTION:

POT 3220 has been designed to meet the requirements for an economical cascadable additive system with logistics, for formulating heavy duty diesel engine & Gasoline lubricants meeting API SC/CC to SJ/CF & SM/CI4 (Multigrades and Monogrades) performance levels.

POT 3220 contains Dispersants, antiwear, anti oxidants, detergents, friction modifiers to impart excellent deposit control, oil oxidation Resistance, wear & Rust control in all types of engines.

SINCE 1990

Performance Package

POT 3220

Performance Level

API SC/CC to SJ/CF & CF4, SM/CI4

Viscosity Index Improver

Non Dispersant V.I. Improver

Base Stocks

Group I,II,III & IV base oils

SAE Viscosity Grades

15W-40, 20W-40, 20W-50, 10W, 20W,30W, 30, 40, 50

Engine Test containing desired dosages of POT 3220 in group I, II, III & IV base oils and Non Dispersant V.I.Improvers are characterized by excellent piston deposits control and low bearing weight loss in CRC L – 38.

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POT 3220 can be used in following treat rates to achieve the following credentials.

**API Performance	API SC/CC	2.8	Dosage % w/w
	API SC/CD	3.3	
	API SE/CC	3.5	
	API SE/CD	3.7	
	API SF/CC	3.8	
	API SF/CD	4.1	
	API SF/CF	4.8	
	API SG/CD/CF**	5.1	
	API SJ/CF**	5.0	
	API SG/CF-4	5.7	
	API SL/CF-4	6.6	
	API CH4	7.1	
	API SM/CI4	8.5	
	API SM/CI4 PLUS	9.5	

** meets JASO MA PERFORMANCE AT THIS TREAT LEVEL.

Specification	Typical values	Test Method
Density @ 25 °C, gm/cm	1.01	ASTM D 4052
Flash Point °C (PM), min	180	ASTM D 92
Viscosity at 100 °C, cSt.	72	ASTM D 445
Total Base Number (TBN)	120	ASTMD 2896

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Elements:

Calcium % wt (D 4951/D 4927)	3.88
Nitrogen % wt (D 5291)	0.23
Phosphorus % wt (D 4951)	1.12
Zinc, % wt (D 4951)	1.25
Sulphated ash, % wt (D 874)	13.5

PACKAGE, STORAGE AND TRANSPORTATION

The product should be packed, marked, stored, transported and accepted on delivery. It is nonflammable, inexplusive and incorrosive. When storage, transportation, and blending, the highest temperature should not exceed 60°C. The ambient temperature should not exceed 50°C for long-term storage.