

**SPERRY HD CI-4 Plus 15W-40**

**Formulation**

World over countries have legislated reduced pollution in automotive and stationary diesel engines; oxides of nitrogen are under restriction as per BS III & IV emission specifications and EGR Exhaust Gas Recirculation has been a successful 'in cylinder' strategy to limit this pollutant; EGR design engines significantly increases the soot management needs of engine oil

Sperry HD CI-4 Plus is designed for compatibility in BS III, IV design diesel engines. It is loaded with high detergent additives to keep liners and rings clean enhancing their life. Supporting high detergency are latest dispersant additives ensuring long drain life; base oils used ensure very low volatility even at high temperature.

Sperry HD CI-4 Plus 15W-40 is backward compatible to older engines also.

**OEM Level approval**

Volvo VDS-3 Daimler MB 228.3 MAN M 3275 Cummins CES 20078

**Application and Benefits**

Automotive heavy duty trucks in on road and off road applications

- TATA BS III 1613 697, LPT 1613, LPT 2518, LPK 2518, Prima 2528 K
- Leyland 2518, 2523, 3518, 4923
- Eicher Pro 1059, 3015
- Volvo FH 16
- Can be used in modern SUV, MUV diesel vehicles
- Lower duty applications like low load gensets or city driving employing high solenoid 'on time' increases EGR rate and SPERRY CI-4 Plus is capable to maintain excellent engine cleanliness in such cases

**Test Description**

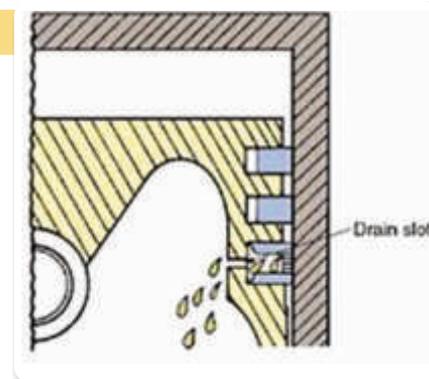
TEST	METHOD	UNIT	TYPICAL VALUE
Appearance	--	--	CLEAR
Density @ 29.5°C	ASTM D 4052	g/cm <sup>3</sup>	0,8650
Kinematic Viscosity @ 100°C	ASTM D 445	cSt	15.40
Viscosity Index	ASTM D 2270	--	140
Flash Point, COC, Min	ASTM D 92	°C	234
Pour Point, max	ASTM D 97	°C	-30
Total Base Number	ASTM D 2896	mg KOH/g	10.87

*Above values are typical indicative.*

**Sperry Assist**

In an old engine which has crossed 300,000 kms having extra piston ring deposits, Sperry HD CI-4 Plus 15W-40 will completely clean the piston ring grooves within first 1000 kms; the soot in the oil can destabilise the oil scraper ring leading to high oil consumption.

So if Sperry HD CI-4 Plus 15W-40 is to be used in an old engine, care should be taken to change oil and filter before 4000 kms. Soon after the clean up, next oil service can be extended to 40,000 kms



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Manufacturing plant Quality System ISO 9000, ISO 14000, ISO 18000 | Laboratory Quality System ISO 17025