

## ENOC Protec Super+ SAE 20W-50

### Applications

ENOC Protec Super+ is a SAE 20W-50 multigrade crankcase lubricant with multi-fuel benefits meaning it is suitable for use in petrol, diesel, CNG, LPG engines.

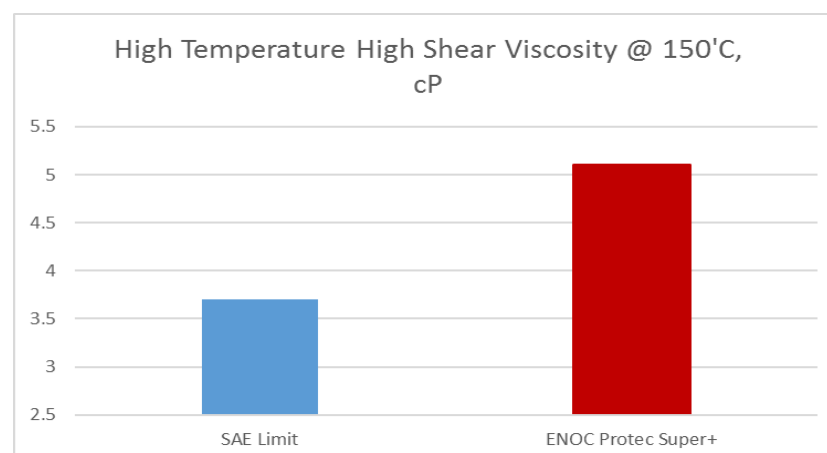
### Main Benefits

- Excellent deposit and oxidation resistance
- Stay-in -grade performance ensured by the use of a shear stable VI improver.
- Optimum protection against engine wear and corrosion

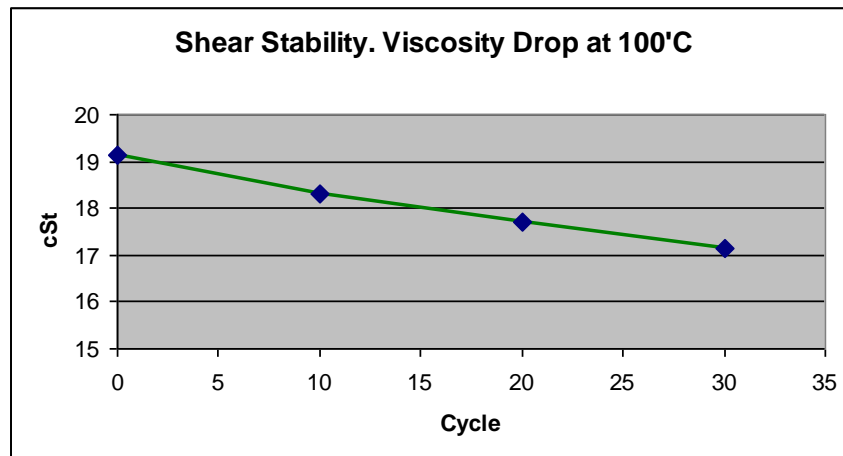
### Summary of Key “Protec” benefits

ENOC Protec Super+ 20W-50 has been tested under wide variety of severe conditions that evaluates its ability to maintain “**right Viscosity**” at different temperatures. This is fundamental strength of ENOC Protec Super+ SAE 20W-50. Depicted under are results against limits. Essentially at lower temperature oil must be fluid enough to provide protection to engine parts & at high temperatures it should be thick enough to provide protection against wear & deposits.

i) **High Temperature High Shear Viscosity** is measured at 150degC which is the typical temperature in many parts of engine running. ENOC Protec Super+ is way above the SAE limits indicating its suitability to work in high heat condition.



ii) **Shear stability of engine oil** is evaluated to assess oil's ability to maintain its viscosity under high shearing forces seen in engine operating condition which tend to break the lubricant molecules. ENOC Protec Super+ exhibits excellent shear stability to be stay in grade as per SAE requirements indicating its ability to work in today's high speed modern engines very effectively.



iii) ENOC Protec Super+ has been successfully assessed in ***actual engine tests that evaluates oil's ability to control deposits due to heat & load***. As seen from the graph as under ENOC Protec Super+ has much cleaner pistons indicating that it has excellent additives to maintain detergency throughout its useful life in engine operating in harsh conditions.



ACCEPTABLE



UNACCEPTABLE

### Customer's Problem Solver

ENOC Protec Super+ SAE 20W-50 has been tested in stressful conditions to evaluate parameters like engine deposits, oil thickening, wear protection, oil consumption & rust protection at API SG/CF Standards that addresses issues of Consumers of higher engine stresses, changes in fuel quality, changes in driving style & most importantly maintenance cost. ENOC Protec Super+ SAE 20W-50 gives all round performance in all of these parameters to give utmost peace of mind to end Consumers.

Tests		Higher Engine Stress	Changes in Fuel Quality	Changes in driving style	Maintenance Cost
Engine deposits	VG	●	●	●	●
Oil thickening	IIIF	●	●	●	●
Wear Protection	IVA	●		●	●
Oil Consumption	Noack volatility	●			●
Rust Protection	BRT		●		●

### **Specifications**

#### **API SG/CF**

#### **Typical Characteristics:**

Test	Method(s)	Unit	Typical
Density @ 15C, Relative	ASTM D4052		0.889
Appearance	Visual		clear and bright red colour
Odour	--		Sweet fruity odour
Viscosity, Kinematic 100C	ASTM D445	mm <sup>2</sup> /s	19.2
TBN	ASTM D2896	mm <sup>2</sup> /s	8.0
Viscosity Index	ASTM D2270	None	122
Flash Point, PMCC	ASTM D93	°C	220
Pour Point	ASTM D5985,	°C	-24

