

MAGNUM PETROLEUM LIMITED

Lube Oil Blending Plant (LOBP)
Rupgonj, Narayangonj



PRODUCT DATA SHEET (PDS)



ENERGY 4T™ SAE 10W-30 API SL JASO MA-2

Motorcycle Oil (MCO)

Introduction

ENERGY 4T™ is new generation top-tier four-stroke **Motorcycle Oil (MCO)** protecting engines, transmission and clutches that reduces friction against corrosion and keeping engine parts clean to extend engine life.

Features & Benefits

- Robust frictional characteristics
- Covers **JASO MA-2 (T903:2023)** requirements
- Outstanding oxidation and deposit control
- Optimized wear performance index in **DFI, SFI** and **STI**

Technical Performance Data

TEST PARAMETERS	TEST METHOD	UOM	SPECIFICATION		TYPICAL RESULTS
			MIN.	MAX.	
Appearance	ASTM D 4176	-	B&C	-	B&C
Color	ASTM D 1500	-	Report	-	L 2.5
Density at 15 °C	ASTM D 4052	g/mL	Report	-	0.8597
Density at 30 °C	ASTM D 4052	g/mL	Report	-	0.8506
Kinematic Viscosity at 40°C	ASTM D 445	cSt	Report	-	67.9
Kinematic Viscosity at 100°C	ASTM D 445	cSt	9.30	12.50	11.28
Viscosity Index	ASTM D 2270	-	115	-	162
Cold Cranking Viscosity (CCS) at -25°C	ASTM D 5293	mPa.s	-	7000	3490
Flash Point (FP)	ASTM D 92	°C	210	-	230
Pour Point (PP)	ASTM D 5950	°C	-	-24	-45
Total Base Number (TBN)	ASTM D 2896	mg KOH/g	5.15	-	6.74
Foaming Seq. I	ASTM D 892	mL	-	10/0	5/0
Foaming Seq. II	ASTM D 892	mL	-	25/0	10/0
Foaming Seq. III	ASTM D 892	mL	-	10/0	5/0
FTIR Scanning	ASTM E 2412	As Ref.	Matches	-	Matches

