



PRODUCT SPECIFICATION

SPECIFICATION

Product Name: BOA ULTRA MAX CK-4 15W-40

PRIMARY TESTS	METHOD	SPECIFICATION		
		MIN	TYP	MAX
Appearance	Visual	Clear and Bright		
Colour	ASTM D1500 / TS 1713 ISO 2049	3	4	4.5
Density 15 °C, g/ml	ASTM D4052 / TS EN ISO 12185	0.850	0.875	0.890
Kinematic Viscosity 100 °C, mm ² /s	ASTM D445 / TS EN ISO 3104	13	14	16.3
Kinematic Viscosity 40 °C, mm ² /s	ASTM D445 / TS EN ISO 3104	90	115	130
Viscosity Index	ASTM D2270 / TS ISO 2909	135		
T.B.N. mgKOH/g	ASTM D2896 / TS ISO 3771	7		
Cold Cracking (-20 °C), cp	ASTM D5293 / TS 1896			7000

SECONDARY TESTS	METHOD	SPECIFICATION		
Pour Point, °C	ASTM D97 / TS EN ISO 3016			-33
Flash Point, °C (COC)	ASTM D92 / TS EN ISO 2592	220		
Evaporation Loss, %m/m	ASTM D5800 / TS 13489			15
Predicting the Borderline Pump. Temp. °C (-25 °C) TS 4409				60000
Foaming Characteristic (II Kd.) ml/ml	ASTM D892 / TS 1834 ISO 6247			50/0
Sulfated Ash %m/m	ASTM D874 / TS ISO 3987			1.2
Copper Corrossion (100 °C, 3 hours)	ASTM D130 / TS 2741 EN ISO 2160			1b
Tapered Bearing Viscosity, 150 °C, mm ² /s	TS 8416	3.7		

PERFORMANCE LEVELS: API: CK-4/CJ-4/CI-4+/CI-4/CF/SN, ACEA E9, DTFR 15C100, (MB Approval 228.31), MAN M 3775, MTU Type 2.1, Volvo VDS 4.5, Mack EOS 4.5, Renault RLD-4, Cummins CES 20086, Detroit Diesel DDC 93K222, Caterpillar CAT ECF-3, Deutz DQC III-18LA, Ford WSS-M2C171-F1

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* As the defined values are typical values, there can be some little changes according to the production. M Oil keeps all the rights to update and change the formulations of products without making any announcements. For the updated informations and technical data about the products and product packagings, please contact with M Oil.