

CERTIFICATE OF ANALYSIS № 658

Semi-synthetic motor oil TEMOL Classic 10W-40

TU U 23.2-30858281-007:2008 zm.1,2,3,4

API SG/CD

Batch № 658

Manufacturing date: 01.09.23 Batch net weight: 15 t



Product Characteristics

№	Characteristics and units	Standard limits	Actual	Test method
1	Kinematic viscosity at 100oC, cSt, in range	12,5-16,3	14,65	DSTU GOST 33 or ASTM D 445
2*	Viscosity Index, not less than	130	154	DSTU GOST 25371 or ASTM D 2270
3*	Total base number, mg KOH per 1 g, not less than	7,5	7,8	DSTU 5094 or ASTM D2896 or ISO 3771
4*	Sulfated ash, %, not less than	1,30	0,98	DSTU GOST 12417 or ASTM D 874
5	Flash point (COC), °C, not less than	210	220	DSTU GOST 4333 or ASTM D
6*	Pour point, °C, not more than	-32	-34	GOST 20287 method B or ASTM D 97
7	Density at 20 °C, kg/m3, not more than	905	876	GOST 3900 or ASTM D 1298
8	Mechanical impurities content, %, not more than	0,015	0,008	GOST 6370 or ASTM D 2273
9	Water content, %, not more than	0,03	Absent	GOST 2477 or ASTM D 95
10*	Zinc, mass %, not less than	0,09	0,095	GOST 13538 or ASTM D 4927
11*	Calcium, mass %, not less than	0,23	0,28	GOST 13538 or ASTM D 4927
12	Color with dilution 15:85 on colorimeter, not more than	4,5	0,5	GOST 20284 or ASTM D 1500
13*	Dynamic viscosity at -25oC, mP*s, not more than	7000	6850	GOST 1929 or p.6.11
14	Corrosion on plumbum plates (DK-NAMI), g/m2, not more than	Pass	Pass	GOST 20502 method A, V. II
15	Stability based on inductive period of sedimentation (IPS), 30 hours	Pass	Pass	GOST 11063

* As agreed by the parties

Manufactured by KSM PROTEC LLC, Ukraine

Conclusion: Semi-synthetic motor oil TEMOL Classic 10W-40 sample satisfies the requirement of TU U 23.2-30858281-007:2008 zm.1,2,3,4 standard based on characteristics analyzed.

Shelf life - 5 years from date of manufacture.

Laboratory technician _____

Laboratory head _____

Date of issue: 04.09.23

