

LLC «JV YUKOIL»

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State register No. 31852954



Testing laboratory of JV "YUKOIL" LLC is certified for carrying out tests of quality parameters of petroleum products, technical fluids and lubricants. Certificate of technical competence recognition № AB 83-21 dated 16.11.2021 is issued by the State-owned enterprise "ZAPORIZHYASTANDARTMETROLOGIA", valid till 16.11.2024

Quality Certificate No 20018.01.01.1

Engine oil YUKO M-14D2 (CD 40)

Manufacturer JV YUKOIL LLC

Packed by JV YUKOIL LLC

Viscosity grade: **SAE 40**Quality Index: **API CD**

Production date: May 2023

Package: barrel 200L metal

Batch No:20018.15.05.23.01.



№	Test	Norm	Result	Test method
1	Density at 20 °C, kg/m ³ , not more than	910	893,1	ASTM D1298
2	Kinematic viscosity at 100°C, mm ² /s	13,0 - 16,0	14,86	ASTM D445
3	Viscosity index, not less than	85	92	ASTM D2270
4	Open cup flash point, °C, not less than	220	230	ASTM D92
5	Pour point, °C, not high than	minus 25	minus 29	ASTM D97
6	Mass fraction of active elements, %, not less than			ASTM D6481 or ASTM D6443 or ASTM D4927
	- calcium	0,45	0,488	ASTM D6481 or ASTM D6443 or ASTM D4927
	- zinc	0,09	0,099	ASTM D6481 or ASTM D6443 or ASTM D4927
7	Colour on colorimeter, not more than	5,0	2,0	ASTM D1500
8	Water content, %, not more than	traces	traces	ASTM D95
9	Mass fraction of mechanical impurities, %, not more than	0,025	0,013	GOST 6370
10	TBN, mg KOH/g, not less than	13,0	14,19	DSTU 5094 or GOST 11362 or ASTM D4739
11	Sulphated ash, %, not more than	2,1	1,81	ASTM D874
12	Corrosion on plates of the lead, g/m ² , not more than	absence	absence	GOST 20502
13	Tribological characteristics on 4 balls machine at (20±5) °C			ASTM D2783
	- scuff index, N, not less than	421	525	ASTM D2783
	- critical load, N, not less than	823	1 355	ASTM D2783
	- wear scar diameter (196H), mm, not more than	0,4	0,30	ASTM D2783
14	Stabilization by inductive period of sedimentation, h	pass	pass	GOST 11063

Result: the product quality meets the standard of TU U 19.2-31852954-061:2021

seal

Head of Quality Assurance Department

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