



KOKYBĖS SERTIFIKATAS
CERTIFICATE OF QUALITY · ПАСПОРТ КАЧЕСТВА

Print date: 2020-07-09

- 1. Product identifier:** Engine oil
MANNOL Energy Formula PD 5W-40, Volume: 10 l
- 2. Product manufacturing date:** 2020-07-08
Batch № H-4926
Expiry date 07.2025
- 3. Handling and storage:** Store in a dry, cool place with sufficient ventilation. Keep out of direct sunlight. Storage room do not smoke. Keep out of children. For more information see the safety data sheet.
- 4. Product quality parameters:**

MANNOL Energy Formula PD 5W-40			
Product specification	SAE 5W-40 API SN ACEA C3, C2 MB-Approval 229.51 VW-Norm 502 00/505 01, 505 00/505 01 BMW Longlife-04 PORSCHE A40 FORD WSS-M2C917-A/M2C950-A GM dexos2 RENAULT RN 0700/0710 MB 229.31/229.52/226.5 Chrysler MS-11106		
Parameter name	Standard	Results	Test method
Viscosity at 100°C, cSt	13,0-14,5	14.06	ASTM D-445
Viscosity at 40°C, cSt	-	82.37	ASTM D-445
Viscosity index, min	170	177	ASTM D-2270
Dynamic viscosity [cP], at -30°C, max	6600	4780	ASTM D-5293
Total base no. mgKOH/g, min	7,0	7.67	ASTM D-2896
Flash point, open cup, °C	220	226	ASTM D-92
Pour point, °C, max	-35	-42	ASTM D-97
Density at 15°C, kg/l, max	0,9	0.85	ASTM D-1298

Responsible for analysis: Daiva Burbaitė

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