

Polina M-Multigrade oils technical specifications

Covered classes:

- API SN/SM/CJ-4
- ACEA A3/B3/B4
- ACEA 2010 E9-08
- MB 228.31
- MAN M 3575
- Mack EO-O Premium Plus

#	Index	5W30	5W40	10W40	Testing method
1	Kinematic viscosity 100 °C, mm ² /s	9,3-12,5	12,5-16,3	12,5-16,3	EN ISO 3104
2	Kinematic viscosity 150 °C, mm ² /s (min)	2,9	3,7	3,7	EN ISO 3104
4	Dynamic viscosity (ccs), mPa.s	At -30°C 6600	At -30°C 6600	At -25°C 7000	ASTM D 5293
5	Dynamic viscosity, pumped mPa.s	At -35°C 60000	At -35°C 60000	At -30°C 60000	ASTM D 4684
6	Flash point, °C , ≥	210	215	215	EN ISO 2592
7	Pouring temperature, °C, ≤	-35	-35	-30	ISO 3016
8	Sulphuric ashes, %, ≤	0,97	0,97	0,97	EN ISO 3987
9	Overall alkalescence, mg KOH/g, ≥	8,3	8,3	8,3	ASTM D 2896
10	Zn%	0,120	0,120	0,120	ASTM D 5185
11	P%	0,107	0,107	0,107	ASTM D 5185
12	Ca%	0,233	0,233	0,233	ASTM D 5185

#	Index	15W30	15W40	Testing method
1	Kinematic viscosity 100 °C, mm ² /s	9,3-12,5	12,5-16,3	EN ISO 3104
2	Kinematic viscosity 150 °C, mm ² /s (min)	2,9	3,7	EN ISO 3104
4	Dynamic viscosity (ccs), mPa.s	At -20°C 7000	At -20°C 7000	ASTM D 5293
5	Dynamic viscosity, pumped mPa.s	At -35°C 60000	At -35°C 60000	ASTM D 4684
6	Flash point, °C , ≥	220	225	EN ISO 2592
7	Pouring temperature, °C, ≤	-25	-25	ISO 3016
8	Sulphuric ashes, %, ≤	0,97	0,97	EN ISO 3987
9	Overall alkalescence, mg KOH/g, ≥	8,3	8,3	ASTM D 2896
10	Zn%	0,120	0,120	ASTM D 5185
11	P%	0,107	0,107	ASTM D 5185
12	Ca%	0,233	0,233	ASTM D 5185

#	Index	20W40	20W50	Testing method
1	Kinematic viscosity 100 °C, mm ² /s	12,5-16,3	16,3-21,9	EN ISO 3104
2	Kinematic viscosity 150 °C, mm ² /s (min)	3,7	3,7	EN ISO 3104
4	Dynamic viscosity (ccs), mPa.s	At -15°C 9500	At -15°C 9500	ASTM D 5293
5	Dynamic viscosity, pumped mPa.s	At -20°C 60000	At -20°C 60000	ASTM D 4684
6	Flash point, °C , ≥	230	235	EN ISO 2592
7	Pouring temperature, °C,≤	-20	-29	ISO 3016
8	Sulphuric ashes, %,≤	0,97	0,97	EN ISO 3987
9	Overall alkalescence, mg KOH/g, ≥	8,3	8,3	ASTM D 2896
10	Zn%	0,120	0,120	ASTM D 5185
11	P%	0,107	0,107	ASTM D 5185
12	Ca%	0,233	0,233	ASTM D 5185