



OIL REPORT

LAB NUMBER:
 REPORT DATE: 12/20/2022
 CODE: 1/88

UNIT ID:
 CLIENT ID:
 PAYMENT:

UNIT	EQUIP. MAKE/MODEL: Mercedes Benz 2.0L Turbo M270/M2	OIL TYPE & GRADE: 5W/40
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 3,000 Miles
	ADDITIONAL INFO:	

CLIENT	PHONE:
	FAX:
	ALT PHONE:
	EMAIL:

COMMENTS There really aren't any significant changes to your Mercedes' report compared to last time, and as we've probably mentioned before, that's a good thing! Stable wear is healthy wear, as far as we're concerned. This engine really isn't making much metal at all, so that's just another reason to think the internal components are happy and healthy at 33,100 miles. The viscosity is still coming in too low for 5W/40, but there's no fuel dilution to blame for that, and the oil still seems to be working as intended, so the viscosity still isn't anything more than a curiosity.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	3,000	UNIT / LOCATION AVERAGES	3,100	3,000	4,300	UNIVERSAL AVERAGES
	MI/HR on Unit	33,100		25,555	22,400	10,700	
	Sample Date	11/26/2022		11/15/2021	6/27/2021	1/26/2020	
	Make Up Oil Added	0 qts		0 qts	0 qts	0 qts	
ALUMINUM	1	2	2	2	2	3	
CHROMIUM	0	0	0	0	0	0	
IRON	6	7	7	7	9	13	
COPPER	1	2	1	1	4	3	
LEAD	0	0	0	0	0	0	
TIN	0	0	0	0	0	0	
MOLYBDENUM	1	1	0	1	1	57	
NICKEL	0	0	0	0	0	0	
MANGANESE	0	0	0	0	1	1	
SILVER	0	0	0	0	0	0	
TITANIUM	0	1	0	1	2	1	
POTASSIUM	2	1	0	1	0	2	
BORON	57	42	54	44	11	92	
SILICON	8	9	9	8	9	13	
SODIUM	4	4	4	5	3	5	
CALCIUM	2561	2718	2701	2858	2752	2397	
MAGNESIUM	16	15	13	13	17	104	
PHOSPHORUS	886	882	916	928	797	841	
ZINC	958	972	1014	1030	886	948	
BARIUM	0	0	0	0	0	0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	60.5	65-78	63.4	64.5	68.8
	cSt Viscosity @ 100°C	10.37	11.6-15.3	11.16	11.47	12.64
	Flashpoint in °F	400	>385	400	410	390
	Fuel %	<0.5	<2.0	<0.5	<0.5	<0.5
	Antifreeze %	0.0	0.0	0.0	0.0	0.0
	Water %	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.1	<0.6	0.1	0.1	0.1
	TBN					7.3
	TAN					
ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com