



OIL REPORT

LAB NUMBER: S066396
 REPORT DATE: 6/6/2024
 CODE: 44/1,430

UNIT ID: 14 E63
 CLIENT ID: 246309
 PAYMENT: CC Online

UNIT	MAKE/MODEL: Mercedes AMG 5.5L V-8 Twin-Turbo M	OIL TYPE & GRADE: Liqui Moly Molygen 5W/40
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 5,065 Miles
	ADDITIONAL INFO:	

CLIENT	
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COMMENTS KEVIN: Thanks for noting your concern with the 2-stage oil pump. If the solenoid is stuck in the "low" oil pressure position, it isn't resulting in excess wear for your V-8. Metals match up nicely with universal averages for the M157 engine, and those averages show typical wear after about 5,400 miles on the oil. Mechanical parts are working well together from what we can see. The oil is in excellent physical condition, too. The viscosity is correct and contamination is absent. The 5.3 TBN is strong (2.0 is too low). 5W/40 worked well, and 5W/50 should be fine too. Excellent!

	MI/HR on Oil	5,065	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	103,974						
	Sample Date	5/4/2024						
	Make Up Oil Added	1 L						
ELEMENTS IN PARTS PER MILLION	ALUMINUM	6	6					5
	CHROMIUM	1	1					1
	IRON	8	8					14
	COPPER	1	1					2
	LEAD	1	1					0
	TIN	1	1					2
	MOLYBDENUM	34	34					58
	NICKEL	0	0					0
	MANGANESE	1	1					3
	SILVER	0	0					0
	TITANIUM	0	0					1
	POTASSIUM	1	1					1
	BORON	11	11					117
	SILICON	7	7					8
	SODIUM	5	5					5
	CALCIUM	2996	2996					2545
	MAGNESIUM	88	88					230
	PHOSPHORUS	956	956					888
ZINC	1054	1054					1001	
BARIUM	0	0					0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	67.6	65-78				
	cSt Viscosity @ 100°C	12.31	11.6-15.3				
	Flashpoint in °F	410	>385				
	Fuel %	<0.5	<2.0				
	Antifreeze %	0.0	0.0				
	Water %	0.0	0.0				
	Insolubles %	0.2	<0.6				
	TBN	5.3	>1.0				
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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