



# OIL REPORT

LAB NUMBER: P12709

UNIT ID: AMG E63

REPORT DATE: 11/22/2021

CLIENT ID: 1972

CODE: 1/68

PAYMENT: PO:

**UNIT** MAKE/MODEL: Mercedes AMG 5.5L V-8 Twin-Turbo M OIL TYPE & GRADE: Castrol 0W/40  
 FUEL TYPE: Gasoline (Unleaded) OIL USE INTERVAL: 400 Miles  
 ADDITIONAL INFO:

**CLIENT** JASON HENN PHONE: (260) 432-7200  
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 7227 W JEFFERSON BLVD ALT PHONE:  
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**COMMENTS** JASON: This engine has a serious coolant leak. Coolant is apparent in the potassium, silicon, and sodium levels, and the actual presence of water (12.0% of the sample). Water likely raised the viscosity and caused rapid oxidation since insolubles are excessive. Also note the flashpoint is low enough to show excess fuel in the oil. Iron and copper are elevated after just 400 miles of oil use, showing poor wear at steel and brass/bronze parts. For reference, averages for comparison are based on a 5,500-mile run. Metals might improve once contamination is no longer a problem.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	400	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	53,000						
	Sample Date	11/19/2021						
	Make Up Oil Added							
	ALUMINUM	4						4
	CHROMIUM	1						1
	IRON	26						14
	COPPER	5						2
	LEAD	0						0
	TIN	1						2
	MOLYBDENUM	66						52
	NICKEL	0						0
	MANGANESE	7						3
	SILVER	0						0
	TITANIUM	0						1
	POTASSIUM	2129						1
	BORON	550						113
	SILICON	125						8
	SODIUM	3012						5
	CALCIUM	2404						2720
	MAGNESIUM	51						61
	PHOSPHORUS	859						883
	ZINC	892						1003
	BARIIUM	0						0

Values Should Be\*

PROPERTIES	SUS Viscosity @ 210°	104.0	65-75				
	cSt Viscosity @ 100°C	21.29	11.6-14.5				
	Flashpoint in °F	300	>385				
	Fuel %	4.3	<2.0				
	Antifreeze %	>5.0	0.0				
	Water %	12.0	0.0				
	Insolubles %	8.0	<0.6				
	TBN						
	TAN						
	ISO Code						

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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