



# OIL REPORT

LAB NUMBER: R55279

UNIT ID: 23 GLADIATOR

REPORT DATE: 9/13/2023

CLIENT ID: 230002

CODE: 20/88

PAYMENT: Prepaid

<b>UNIT</b>	MAKE/MODEL: Jeep 3.6L V-6 Pentastar	OIL TYPE & GRADE: Mobil 1 0W/40 Euro
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 6,503 Miles
	ADDITIONAL INFO:	

<b>CLIENT</b>	PHONE:
	FAX:
	ALT PHONE:
	EMAIL:

**COMMENTS** Universal averages (far right) show the typical wear profile for a 3.6L Pentastar engine after ~6K miles of oil use. Iron is high in this report, but that may only be because this engine is still young. Wear-in leaves metals reading high, and it takes a few oil changes for all of that material to wash out. Similarly, silicon is likely from sealers/lubes used to assemble the engine. It wouldn't hurt to check air filtration in case some silicon is from dirt, though. 1.0% fuel and a low viscosity aren't harmful. Check back in another 6K - 7K miles for best comparison.

<b>ELEMENTS IN PARTS PER MILLION</b>	MI/HR on Oil	6,503	<b>UNIT / LOCATION AVERAGES</b>					<b>UNIVERSAL AVERAGES</b>
	MI/HR on Unit	8,503						
	Sample Date	8/20/2023						
	Make Up Oil Added	0 qts						
ALUMINUM	7	7					4	
CHROMIUM	2	2					1	
IRON	<b>39</b>	39					18	
COPPER	11	11					15	
LEAD	0	0					0	
TIN	0	0					0	
MOLYBDENUM	79	79					104	
NICKEL	1	1					0	
MANGANESE	7	7					2	
SILVER	0	0					0	
TITANIUM	0	0					3	
POTASSIUM	6	6					3	
BORON	67	67					51	
SILICON	<b>37</b>	37					14	
SODIUM	9	9					19	
CALCIUM	1289	1289					1431	
MAGNESIUM	946	946					486	
PHOSPHORUS	796	796					671	
ZINC	878	878					765	
BARIUM	0	0					0	

Values Should Be\*

<b>PROPERTIES</b>	SUS Viscosity @ 210°F	<b>61.2</b>	63-74				
	cSt Viscosity @ 100°C	<b>10.57</b>	11.1-14.3				
	Flashpoint in °F	<b>365</b>	>385				
	Fuel %	1.0	<2.0				
	Antifreeze %	0.0	0.0				
	Water %	0.0	<0.1				
	Insolubles %	0.2	<0.6				
	TBN						
	TAN						
	ISO Code						

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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