



# OIL REPORT

LAB NUMBER: S034846  
 REPORT DATE: 3/21/2024  
 CODE: 20/88

UNIT ID: 23 DEFENDER  
 CLIENT ID: 30525  
 PAYMENT: CC Online

<b>UNIT</b>	MAKE/MODEL: Land Rover 3.0L I-6 Turbo Ingenium	OIL TYPE & GRADE: 0W/20
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 5,000 Miles
	ADDITIONAL INFO:	

<b>CLIENT</b>	PHONE: [REDACTED]
	FAX: [REDACTED]
	ALT PHONE: [REDACTED]
	EMAIL: [REDACTED]

**COMMENTS** MIKE: Universal averages are on the far right, and give us a good understanding of how these 3.0Ls normally wear after ~6,900 miles on the oil. Wear metals, and silicon, are a bit high compared to these averages, but that's a very common find in break-in samples. Parts are still wearing in, and harmless sealers/lubes (silicon) need a chance to wash out of the system. Look for the highlight metals and silicon to decrease with each oil change until they better resemble averages. There's no measurable contamination to note, and low insolubles speak to a good oil filter.

<b>ELEMENTS IN PARTS PER MILLION</b>	MI/HR on Oil	5,000	<b>UNIT / LOCATION AVERAGES</b>					<b>UNIVERSAL AVERAGES</b>
	MI/HR on Unit	5,000						
	Sample Date	4/22/2023						
	Make Up Oil Added	0 qts						
ALUMINUM	16	16					5	
CHROMIUM	0	0					0	
IRON	40	40					15	
COPPER	59	59					2	
LEAD	1	1					0	
TIN	4	4					0	
MOLYBDENUM	74	74					75	
NICKEL	0	0					0	
MANGANESE	66	66					5	
SILVER	0	0					0	
TITANIUM	20	20					8	
POTASSIUM	3	3					1	
BORON	45	45					77	
SILICON	36	36					8	
SODIUM	8	8					7	
CALCIUM	940	940					1315	
MAGNESIUM	798	798					482	
PHOSPHORUS	688	688					716	
ZINC	794	794					808	
BARIUM	1	1					0	

Values Should Be\*

<b>PROPERTIES</b>	SUS Viscosity @ 210°F	48.3	46-57				
	cSt Viscosity @ 100°C	6.75	6.0-9.7				
	Flashpoint in °F	415	>385				
	Fuel %	<0.5	<2.0				
	Antifreeze %	0.0	0.0				
	Water %	0.0	0.0				
	Insolubles %	0.1	<0.6				
	TBN						
	TAN						
	ISO Code						

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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