



OIL REPORT

LAB NUMBER:
REPORT DATE: 5/4/2023
CODE: 20/88

UNIT ID:
CLIENT ID:
PAYMENT:

UNIT	EQUIP. MAKE/MODEL: Ford 2.3L 4-cyl EcoBoost	OIL TYPE & GRADE: Motorcraft 5W/30
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 7,498 Miles
	ADDITIONAL INFO:	

CLIENT	PHONE:
	FAX:
	ALT PHONE:
	EMAIL:

COMMENTS	Thanks for the note and congrats on your new Ranger! Universal averages show typical wear levels for this engine type after ~5,100 miles on the oil. This sample contains more metal and silicon, but that's just from break-in. A lot of this should have cleared out with your oil change, so just look for improvement next time. The viscosity was more like a 5W/20, but that's not a concern. We did see some fuel in the oil and it's harmless at a trace level, so don't let it worry you. We think you can easily run the next oil longer if you'd like. Try 10,000 miles.
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ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	7,498	UNIT / LOCATION AVERAGES						
	MI/HR on Unit	7,498							
	Sample Date	4/21/2023							
	Make Up Oil Added	0.50 qts							
	ALUMINUM	11	11						4
	CHROMIUM	0	0						0
	IRON	19	19						11
	COPPER	36	36						3
	LEAD	1	1						0
	TIN	1	1						0
	MOLYBDENUM	141	141						101
	NICKEL	0	0						0
	MANGANESE	3	3						2
	SILVER	0	0						0
	TITANIUM	0	0						2
	POTASSIUM	3	3						5
	BORON	71	71						100
	SILICON	73	73						19
	SODIUM	9	9						10
	CALCIUM	1520	1520						1590
	MAGNESIUM	384	384						385
	PHOSPHORUS	770	770						717
	ZINC	813	813						804
	BARIUM	2	2						2

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	51.4	56-63					
	cSt Viscosity @ 100°C	7.71	9.1-11.3					
	Flashpoint in °F	385	>385					
	Fuel %	TR	<2.0					
	Antifreeze %	0.0	0					
	Water %	0.0	0.0					
	Insolubles %	0.2	<0.6					
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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