

OIL REPORT LAB NUMBER: UNIT ID:

REPORT DATE: 6/21/2024 CLIENT ID:

CODE: 20/88 PAYMENT:

EQUIP. MAKE/MODEL: Ford 2.3L 4-cyl EcoBoost

FUEL TYPE: Gasoline (Unleaded)

ADDITIONAL INFO:

OIL TYPE & GRADE: OIL USE INTERVAL: Motorcraft 5W/30

1,117 Miles

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PHONE: FAX:

ALT PHONE: EMAIL:

**SMMENTS** 

Like most new engines, the 2.3L EcoBoost in your Ranger is starting out with high copper and silicon levels. Both elements are almost certainly related to the normal break-in process, and they should edge closer to universal averages with each oil change. These averages show what's typical for a mature 2.3L EcoBoost after about 5,200 miles on the oil. Aside from copper, wear metals already look okay compared to averages. Fuel dilution was okay at only 1.5% of the sample, and a low/thin viscosity isn't cause for concern, either. No coolant was found.

	MI/HR on Oil	1,117	LINUT /			
	MI/HR on Unit	1,117	UNIT / LOCATION			UNIVERSAL
	Sample Date	5/20/2024	AVERAGES			AVERAGES
	Make Up Oil Added	0 qts				
O	ALUMINUM	7	7			4
Ĭ	CHROMIUM	0	0			0
	IRON	8	8			10
	COPPER	39	39			3
ER	LEAD	1	1			0
Д	TIN	0	0			0
TS	MOLYBDENUM	139	139			102
R	NICKEL	0	0			0
7	MANGANESE	2	2			2
Z	SILVER	0	0			0
တ	TITANIUM	0	0			2
F	POTASSIUM	2	2			5
EN I	BORON	147	147			92
M	SILICON	72	72			18
ᆸ	SODIUM	8	8			9
	CALCIUM	1315	1315			1493
	MAGNESIUM	400	400	 		417
	PHOSPHORUS	732	732			704
	ZINC	780	780			787
	BARIUM	2	2			1

Values Should Be\*

SUS Viscosity @ 210°F	52.8	56-63			
cSt Viscosity @ 100°C	8.11	9.1-11.3			
Flashpoint in °F	355	>385			
Fuel %	1.5	<2.0			
Antifreeze %	0.0	0			
Water %	0.0	0.0			
Insolubles %	TR	<0.6			
TBN					
TAN					
ISO Code					

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE