

## OIL REPORT

LAB NUMBER:
REPORT DATE: 12/3/2024

UNIT ID: CLIENT ID: PAYMENT:

EQUIP. MAKE/MODEL:

Ford 2.3L 4-cyl EcoBoost

FUEL TYPE: Gasoline (Unleaded)

ADDITIONAL INFO:

OIL TYPE & GRADE: OIL USE INTERVAL:

**CODE**: 20/88

Valvoline High Mileage Synblend 10W/30

3,106 Miles

IENT

PHONE: FAX:

ALT PHONE: EMAIL:

OMMENTS

Copper is in the average range so it looks like most of the wear-in material is out of the engine. Maybe copper will drop a bit more if there's any lingering wear-in material in the system, but we won't complain if it holds steady. Other metals are in good shape and low silicon shows excellent air filtration. The viscosity is a little low for 10W/30 oil, maybe due to mild fuel dilution. A trace of fuel is harmless and from normal use like idling or short trips, not a problem. We didn't find any coolant or water contamination. Nice report. Your Ranger's engine is maturing nicely!

	MI/HR on Oil	3,106	UNIT / LOCATION AVERAGES	2,656	1,661	608		
	MI/HR on Unit	8,031		4,925	2,269	608		UNIVERSAL
	Sample Date	11/8/2024		9/21/2024	7/12/2024	6/16/2024		AVERAGES
	Make Up Oil Added	0 qts		0 qts	0 qts	0 qts		
N	ALUMINUM	4	4	4	5	9		4
Ě	CHROMIUM	0	0	0	0	0		0
불	IRON	3	4	4	5	6		10
~	COPPER	4	6	7	18	28		3
П	LEAD	0	1	1	0	1		0
Ф	TIN	0	0	0	0	0		0
TS	MOLYBDENUM	118	123	127	133	144		102
Ä	NICKEL	0	0	0	0	0		0
4	MANGANESE	0	0	0	1	2		2
Z	SILVER	0	0	0	0	0		0
S	TITANIUM	0	0	0	0	0		2
Ę	POTASSIUM	0	1	2	2	0		5
Ē	BORON	77	60	43	79	166		90
EM	SILICON	14	15	15	25	65		18
ᇤ	SODIUM	4	4	3	3	7		9
	CALCIUM	972	1034	1096	978	1354		1458
	MAGNESIUM	506	462	417	484	422		431
	PHOSPHORUS	663	594	524	546	784		695
	ZINC	719	696	672	707	822		781
	BARIUM	0	0	0	0	2		1

Values Should Be\*

SUS Viscosity @ 210°F	54.6	58-65	51.8	51.7	53.6	
cSt Viscosity @ 100°C	8.66	9.7-11.9	7.83	7.78	8.37	
Flashpoint in °F	380	>385	365	360	390	
Fuel %	TR	<2.0	1.0	1.3	<0.5	
Antifreeze %	0.0	0.0	0.0	0.0	0.0	
Water %	0.0	0.0	0.0	0.0	0.0	
Insolubles %	0.1	<0.6	0.1	0.2	0.1	
TBN						
TAN						
ISO Code						

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE