



OIL REPORT

LAB NUMBER: N09831
 REPORT DATE: 2/9/2021
 CODE: 20/68

UNIT ID: 19 RANGER
 CLIENT ID: 159774
 PAYMENT: Prepaid

UNIT	MAKE/MODEL: Ford 2.3L 4-cyl EcoBoost	OIL TYPE & GRADE: Pennzoil Ultra Platinum 5W/30
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 4,079 Miles
	ADDITIONAL INFO:	

CLIENT	ROY, PETERSON	PHONE: (609) 554-2492
	ANDREA	FAX:
	RIEHLAND, WA 99352	ALT PHONE:
		EMAIL: peterson532@gmail.com

COMMENTS ROY: The fuel percentage increased to 4.3%, and the fuel thinned down the oil's viscosity. This is enough fuel to potentially show a fuel system problem. If you're noticing the oil level on the dipstick going up or draining out more oil than you put in, we recommend having the fuel system inspected. The good news is, the excess fuel dilution didn't seem to bother the mechanical parts. Wear metals are quite low and compare well to the levels in the previous reports. No coolant or excess dirt contamination was found. Follow up on fuel dilution in 3,000 miles.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	4,079	UNIT / LOCATION AVERAGES	4,697	4,851	UNIVERSAL AVERAGES
	MI/HR on Unit	18,501		14,401	9,705	
	Sample Date	1/23/2021		10/26/2020	6/30/2020	
	Make Up Oil Added	0 qts		0 qts	0 qts	
ALUMINIUM	3	4	4	4	4	
CHROMIUM	0	0	0	0	0	
IRON	5	6	5	7	12	
COPPER	2	7	5	14	4	
LEAD	0	0	0	0	0	
TIN	0	0	0	1	0	
MOLYBDENUM	82	78	81	71	91	
NICKEL	0	0	0	0	0	
MANGANESE	0	1	1	1	1	
SILVER	0	0	0	0	0	
TITANIUM	2	2	2	2	3	
POTASSIUM	9	5	0	7	4	
BORON	106	90	72	92	116	
SILICON	10	13	13	17	24	
SODIUM	4	4	4	5	12	
CALCIUM	979	993	980	1021	1836	
MAGNESIUM	694	699	720	684	267	
PHOSPHORUS	603	628	653	629	731	
ZINC	690	701	712	702	814	
BARIUM	0	0	0	0	2	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	49.3	56-63	50.7	53.8
	cSt Viscosity @ 100°C	7.07	9.1-11.3	7.48	8.42
	Flashpoint in °F	300	>385	360	345
	Fuel %	4.3	<2.0	1.3	2.0
	Antifreeze %	0.0	0.0	0.0	0.0
	Water %	0.0	<0.1	0.0	0.0
	Insolubles %	0.2	<0.6	0.2	0.2
	TBN				
	TAN				
	ISO Code				

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com