



OIL REPORT

LAB NUMBER: R43181
 REPORT DATE: 8/14/2023
 CODE: 44/88

UNIT ID: 19 RANGER
 CLIENT ID:
 PAYMENT: CC Online

UNIT	MAKE/MODEL: Ford 2.3L 4-cyl EcoBoost	OIL TYPE & GRADE: 5W/30
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 5,237 Miles
	ADDITIONAL INFO:	

CLIENT	PHONE:
	FAX:
	ALT PHONE:
	EMAIL:

COMMENTS Fuel's still the main topic for your Ford, but 2.3% is the lowest reading we've gotten from flashpoint testing since 2021, so at least that's something. The oil's still thin because of the fuel dilution, but it's good that this EcoBoost isn't showing signs of poor wear after 5,237 miles on this oil. Metals still compare well to universal averages, and they really haven't fluctuated from the readings on previous reports either, which is good. Watch for increases on the dipstick's oil level in case fuel dilution worsens and check back.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	5,237	UNIT / LOCATION AVERAGES	4,629	3,655	4,792	5,887	5,800	UNIVERSAL AVERAGES
	MI/HR on Unit	52,258		39,643	30,805	22,853	18,061	12,174	
	Sample Date	6/24/2023		10/14/2022	4/10/2022	8/28/2021	5/31/2021	1/18/2021	
	Make Up Oil Added	0 qts		0 qts	0 qts	0 qts	0 qts	0 qts	
ALUMINUM	5	5	4	3	5	7	5	4	
CHROMIUM	0	0	0	0	0	0	0	0	
IRON	6	6	4	3	5	10	8	11	
COPPER	1	3	1	1	2	3	9	3	
LEAD	0	0	0	0	0	0	0	0	
TIN	0	1	1	1	1	0	0	0	
MOLYBDENUM	52	76	85	70	115	112	19	101	
NICKEL	0	0	0	0	0	0	0	0	
MANGANESE	0	0	0	0	0	1	1	2	
SILVER	2	1	1	0	0	0	0	0	
TITANIUM	0	0	0	0	0	0	0	2	
POTASSIUM	4	16	3	6	25	36	23	5	
BORON	32	45	34	76	42	43	45	98	
SILICON	18	14	10	9	11	16	22	19	
SODIUM	7	5	5	2	5	7	6	10	
CALCIUM	750	978	704	972	1128	1183	1130	1564	
MAGNESIUM	658	539	596	630	357	399	596	394	
PHOSPHORUS	602	649	644	713	618	657	658	715	
ZINC	638	709	690	806	685	721	715	800	
BARIUM	0	7	2	3	11	13	12	2	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	49.6	55-63	51.7	48.8	50.8	48.2	45.6
	cSt Viscosity @ 100°C	7.15	8.8-11.3	7.80	6.90	7.52	6.71	5.90
	Flashpoint in °F	340	>385	320	335	320	335	345
	Fuel %	2.3	<2.0	3.3	2.5	3.3	2.5	2.0
	Antifreeze %	0.0	0.0	0.0	0.0	?	?	?
	Water %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.4	<0.6	0.2	0.2	0.3	0.3	0.3
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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