



OIL REPORT

LAB NUMBER: P71968

UNIT ID: YODA

REPORT DATE: 5/12/2022

CLIENT ID: 187508

CODE: 20/75

PAYMENT: CC Online (Bulk)

UNIT	MAKE/MODEL: Ford 2.3L 4-cyl EcoBoost	OIL TYPE & GRADE: Mobil 1 5W/30
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 5,379 Miles
	ADDITIONAL INFO: 2021 Ranger	

CLIENT	RANDAL ROBERTS	PHONE: (907) 821-0447
	12465 S WOODRING RD	FAX:
	OVERBROOK, KS 66524	ALT PHONE:
		EMAIL: randalwroberts@gmail.com

COMMENTS RANDAL: Yoda once said, "On many long journeys have I gone. And waited, too, for others to return from journeys of their own. Some return; some are broken; some come back so different only their names remain." But it looks like your Yoda handled this trip with perfect ease. This oil change interval was longer, and you did some towing, but wear metals held steady (and copper dropped lower!), so parts are wearing well. There's 1.8% fuel here, but that amount is harmless and typically from normal operation. Let's see if it clears up next time. Nice report!

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	5,379	UNIT / LOCATION AVERAGES	3,360	2,177	UNIVERSAL AVERAGES
	MI/HR on Unit	10,920		5,537	2,177	
	Sample Date	5/3/2022		3/4/2022	11/10/2021	
	Make Up Oil Added	0 qts		0 qts	0 qts	
ALUMINUM	7	7	6	6	4	
CHROMIUM	0	0	0	0	0	
IRON	8	8	8	7	11	
COPPER	3	5	7	33	4	
LEAD	0	0	0	1	0	
TIN	0	0	0	1	0	
MOLYBDENUM	73	79	85	156	99	
NICKEL	0	0	0	0	0	
MANGANESE	0	1	1	2	2	
SILVER	0	0	0	0	0	
TITANIUM	0	0	0	0	2	
POTASSIUM	12	14	16	0	4	
BORON	34	50	65	145	107	
SILICON	19	21	23	78	20	
SODIUM	4	4	4	8	10	
CALCIUM	1026	1052	1077	1457	1657	
MAGNESIUM	697	682	667	438	355	
PHOSPHORUS	644	659	673	779	719	
ZINC	744	751	757	871	806	
BARIUM	0	0	0	2	2	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	53.8	55-63	52.7	54.0
	cSt Viscosity @ 100°C	8.43	8.8-11.3	8.09	8.47
	Flashpoint in °F	350	>385	400	395
	Fuel %	1.8	<2.0	<0.5	<0.5
	Antifreeze %	0.0	0.0	0.0	0.0
	Water %	0.0	0.0	0.0	0.0
	Insolubles %	0.2	<0.6	0.1	0.2
	TBN				
	TAN				
	ISO Code				

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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