



OIL REPORT

LAB NUMBER: Q99606

UNIT ID: 22 TREMOR

REPORT DATE: 4/24/2023

CLIENT ID: 136580

CODE: 44/1,430

PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Ford 3.5L V-6 EcoBoost Twin Turbo	OIL TYPE & GRADE: Pennzoil Ultra Platinum 5W/30
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 4,824 Miles
	ADDITIONAL INFO: F150	

CLIENT	RAMBO CRANE	PHONE: 1-900-RAMBO-CRANE
		FAX:
		ALT PHONE:
		EMAIL: RAMBO CRANE

COMMENTS RAMBO CRANE: This EcoBoost is maturing well. Metals are mostly lower than last time, and copper dropped to a perfectly average level. With that, it appears all the metal from break-in is gone. Silicon dropped, which suggests lingering sealer has made an exit too. We'll start using silicon as a gauge of air filtration's effectiveness, and as of now, it's doing a good job of keeping dirt out of the engine. The low viscosity isn't troublesome, and the TBN is still good at 3.4. Since you've done a 6K-mile run successfully in the past, we think the engine could handle 8K miles next.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	4,824	UNIT / LOCATION AVERAGES	6,067	1,811	UNIVERSAL AVERAGES
	MI/HR on Unit	12,703		7,878	1,811	
	Sample Date	4/10/2023		1/23/2023	9/26/2022	
	Make Up Oil Added	0 qts		0 qts	0 qts	
ALUMINUM	5	5	6	5	4	
CHROMIUM	1	1	1	1	1	
IRON	17	19	22	19	20	
COPPER	13	41	31	80	13	
LEAD	0	1	1	1	0	
TIN	0	0	1	0	0	
MOLYBDENUM	86	104	89	138	87	
NICKEL	0	0	0	0	0	
MANGANESE	2	4	3	6	4	
SILVER	0	0	0	0	0	
TITANIUM	2	1	2	0	2	
POTASSIUM	3	2	2	2	3	
BORON	66	74	37	119	44	
SILICON	22	67	41	137	19	
SODIUM	9	10	8	12	17	
CALCIUM	1528	1313	1114	1296	1404	
MAGNESIUM	737	590	645	388	485	
PHOSPHORUS	611	662	643	733	672	
ZINC	745	750	716	788	762	
BARIUM	0	1	0	2	2	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	54.9	56-63	55.4	54.5
	cSt Viscosity @ 100°C	8.73	9.1-11.3	8.90	8.61
	Flashpoint in °F	410	>385	400	385
	Fuel %	<0.5	<2.0	<0.5	TR
	Antifreeze %	0.0	0.0	0.0	0.0
	Water %	0.0	<0.1	0.0	0.0
	Insolubles %	0.1	<0.6	0.1	0.1
	TBN	3.6	>1.0	2.5	4.4
	TAN				
	ISO Code				

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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