



OIL REPORT

LAB NUMBER: N29889

UNIT ID: 95 CHEROKEE

REPORT DATE: 4/13/2021

CLIENT ID: 95673

CODE: 20/68

PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Jeep 4.0L Inline 6 cyl	OIL TYPE & GRADE: Shell Rotella T4 10W/30
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 5,000 Miles
	ADDITIONAL INFO: XJ	

CLIENT	JOSHUA DOWNS	PHONE: (940) 452-1721
	1990 COUNTY RD 1032	FAX:
	GREENVILLE, TX 75401	ALT PHONE:
		EMAIL: joshua.d.downs@gmail.com, jeepinbanditriders@gmail.com

COMMENTS JOSH: You said there's nothing to note about this oil change, and the same can be said for this report. It's true that there's a little more iron in the oil even though this oil change interval was identical to the last, but we've found this much iron after ~5,000 miles in the past, so it's not as if this level is unusual. The rest of the wear metals are stable, and potassium and sodium remained low enough to show no significant contamination by coolant. There was no detectible fuel in the oil either, and the viscosity was correct for 10W/30. All around, a very nice report for your Jeep!

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	5,000	UNIT / LOCATION AVERAGES	5,000	4,900	5,100	5,200	5,000	UNIVERSAL AVERAGES
	MI/HR on Unit	227,424		222,345	217,300	212,437	207,293	197,447	
	Sample Date	3/15/2021		10/29/2020	8/1/2020	3/30/2020	1/31/2020	8/27/2019	
	Make Up Oil Added	0.5 qts		1 qt	1.5 qts	1.75 qts	2 qts	1.75 qts	
ALUMINUM	4	4	4	4	3	3	3	4	
CHROMIUM	1	1	1	1	1	1	1	1	
IRON	24	21	18	25	16	14	12	24	
COPPER	4	5	5	3	3	2	4	4	
LEAD	5	5	5	6	5	4	5	2	
TIN	1	1	1	0	0	2	3	1	
MOLYBDENUM	4	8	11	54	7	14	60	70	
NICKEL	1	1	0	0	0	0	0	1	
MANGANESE	1	1	0	1	0	0	1	1	
SILVER	0	0	0	0	0	0	0	0	
TITANIUM	0	0	0	0	0	0	0	1	
POTASSIUM	14	13	11	30	45	47	27	4	
BORON	6	5	3	4	9	21	10	50	
SILICON	14	15	15	11	10	10	15	14	
SODIUM	22	23	24	53	67	62	33	47	
CALCIUM	2394	2261	2128	1896	2439	2187	1790	1845	
MAGNESIUM	34	51	68	345	31	36	438	227	
PHOSPHORUS	920	916	912	957	949	930	911	736	
ZINC	1137	1092	1047	1187	1157	1109	1165	863	
BARIUM	0	0	0	0	0	0	0	0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	62.4	58-65	61.4	73.7	64.9	68.8	70.4
	cSt Viscosity @ 100°C	10.90	9.7-11.9	10.60	13.92	11.58	12.63	13.05
	Flashpoint in °F	410	>385	400	400	390	390	395
	Fuel %	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5
	Antifreeze %	0.0	0.0	0.0	0.11	0.13	0.12	POS
	Water %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.2	<0.6	0.2	0.2	0.3	0.2	0.3
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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