



OIL REPORT

LAB NUMBER:
REPORT DATE: 12/13/2021
CODE: 63/68

UNIT ID: 19 C5D
CLIENT ID
PAYMENT: CC Online

UNIT	MAKE/MODEL: Mazda 2.2L 4-cyl SKYACTIV	OIL TYPE & GRADE: Mazda 0W/30
	FUEL TYPE: Diesel	OIL USE INTERVAL: 5,475 Miles
	ADDITIONAL INFO: Model: CX-5	

CLIENT	PHONE:
	FAX:
	ALT PHONE:
	EMAIL:

COMMENTS
The recent regen cycle didn't effect these results as much as we've found it to in the past. Fuel only tested at a trace level and while the viscosity was still thin, that's really the norm for your particular SkyActiv, which seems to have a tendency toward harmless shearing. Potassium is still likely coming from flux compound - that stuff sure takes its time fully washing out of young diesels like this one! Wear metals are all sitting at good levels in relation to universal averages and the past few samples, so the engine seems to be doing well as of 11/23/21, the sample date.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	5,475	UNIT / LOCATION AVERAGES	5,603	7,359	7,406	7,173	7,431	UNIVERSAL AVERAGES
	MI/HR on Unit	40,447		34,972	29,369	22,010	14,604	7,431	
	Sample Date	11/23/2021		8/29/2021	6/9/2021	3/1/2021	10/8/2020	6/22/2020	
	Make Up Oil Added	0 qts		0 qts	0 qts	0 qts	0 qts	0 qts	
ALUMINUM	8	10	7	13	8	7	17	11	
CHROMIUM	2	3	2	3	3	2	3	3	
IRON	40	60	38	55	58	65	101	80	
COPPER	2	8	2	3	4	8	26	7	
LEAD	0	0	0	0	0	0	0	1	
TIN	1	1	0	2	1	0	1	1	
MOLYBDENUM	439	414	374	440	401	426	401	291	
NICKEL	0	0	0	0	0	0	0	0	
MANGANESE	0	1	0	1	1	1	2	1	
SILVER	1	1	1	1	1	2	1	2	
TITANIUM	0	0	0	0	0	0	0	3	
POTASSIUM	74	72	62	69	68	77	81	29	
BORON	216	179	169	181	175	168	165	90	
SILICON	16	28	17	19	19	26	73	24	
SODIUM	3	5	3	5	4	6	8	4	
CALCIUM	1593	1469	1416	1594	1363	1418	1428	1423	
MAGNESIUM	7	9	12	14	5	5	10	40	
PHOSPHORUS	651	623	593	662	583	624	626	590	
ZINC	764	732	685	812	689	722	719	704	
BARIUM	0	1	0	0	0	1	7	0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	57.1	60-69	55.2	55.1	50.9	55.1	52.5
	cSt Viscosity @ 100°C	9.38	10.2-13.0	8.83	8.80	7.54	8.79	8.02
	Flashpoint in °F	410	>410	375	410	390	385	420
	Fuel %	TR	<2.0	3.5	TR	2.0	2.5	<0.5
	Antifreeze %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.3	<0.6	0.3	0.4	0.4	0.4	0.3
	TBN							2.1
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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