



OIL REPORT

LAB NUMBER:
REPORT DATE: 3/12/2020
CODE: 44/68

UNIT ID:
CLIENT ID:
PAYMENT:

UNIT	EQUIP. MAKE/MODEL:	Transfer Case	OIL TYPE & GRADE:	80W/90 Gear Lube
	FUEL TYPE:		OIL USE INTERVAL:	66,789 Miles
	ADDITIONAL INFO:			

CLIENT	PHONE:	
	FAX:	
	ALT PHONE:	
	EMAIL:	

COMMENTS	You may be looking at these numbers and thinking "gee willikers that's a lot of iron." That number is totally fine. Universal averages on the right for the Mazda CX-5's transfer case are based on an oil run of ~16,700 miles, and this oil was in place for over 66,000, so on a per-mile basis this transfer case is wearing even better than average. Which is great! The oil's viscosity is right where it should be for 80W/90, and no evidence for outside contaminants was detected. Insolubles (solids) measured only a trace. Overall an excellent report for this transfer case!				

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	66,789	UNIT / LOCATION AVERAGES							UNIVERSAL AVERAGES
	MI/HR on Unit									
	Sample Date	2/22/2020								
	Make Up Oil Added	0 qts								
	ALUMINUM	8	8							10
	CHROMIUM	1	1							1
	IRON	199	199							96
	COPPER	0	0							14
	LEAD	0	0							9
	TIN	0	0							1
	MOLYBDENUM	1	1							3
	NICKEL	0	0							1
	MANGANESE	1	1							15
	SILVER	0	0							0
	TITANIUM	1	1							1
	POTASSIUM	3	3							4
	BORON	78	78							108
	SILICON	85	85							41
	SODIUM	6	6							8
	CALCIUM	20	20							342
	MAGNESIUM	14	14							24
	PHOSPHORUS	976	976							672
	ZINC	21	21							120
	BARIUM	6	6							10

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	82.5	68-105					
	cSt Viscosity @ 100°C	16.15	12.4-21.8					
	Flashpoint in °F	430	>375					
	Fuel %	-						
	Antifreeze %	-						
	Water %	0.0	0.0					
	Insolubles %	TR	<0.6					
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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