



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						
ALUMINIUM	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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