OIL REPORT

LAB NUMBER:
REPORT DATE: 3/5/2020
CODE: 44/68

UNIT ID:
CLIENT ID:
PAYMENT:

UNIT

EQUIP. MAKE/MODEL: Differential Mazda
FUEL TYPE:
ADDITIONAL INFO:

OIL TYPE & GRADE: GL-5 80W/90
OIL USE INTERVAL: 66,789 Miles

CLIENT

PHONE:
FAX:
ALT PHONE:
EMAIL:

COMMENTS

No problems to report with this differential. Universal averages show typical wear for Mazda differentials after ~16,800 miles of use, and this sample went over 66,000 so even seemingly higher amounts of copper and nickel aren't out of the ordinary at all for this long of a run. The only interesting part is that the flashpoint tested a bit low, but that's not a concern since fuel dilution isn't a possibility in a lube system. The viscosity was normal and we didn't find excess insolubles. Great report!

ELEMENTS IN PARTS PER MILLION

		UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
MI/HR on Oil	66,789							
MI/HR on Unit	66,789							
Sample Date	2/22/2020							
Make Up Oil Added	0 qts							
ALUMINUM	4	4						2
CHROMIUM	2	2						5
IRON	195	195						443
COPPER	11	11						5
LEAD	0	0						1
TIN	0	0						1
MOLYBDENUM	1	1						12
NICKEL	7	7						2
MANGANESE	8	8						17
SILVER	0	0						0
TITANIUM	0	0						4
POTASSIUM	5	5						3
BORON	47	47						138
SILICON	41	41						61
SODIUM	7	7						5
CALCIUM	13	13						25
MAGNESIUM	17	17						12
PHOSPHORUS	1070	1070						1562
ZINC	7	7						24
BARIUM	13	13						6

PROPERTIES

		Values Should Be*					
SUS Viscosity @ 210°F	80.8	68-82					
cSt Viscosity @ 100°C	15.73	12.4-16.3					
Flashpoint in °F	**395**	>405					
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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