

OIL REPORT

LAB NUMBER: P04956

UNIT ID: 15 XFR-S-RDIFF

REPORT DATE: 11/5/2021 **CLIENT ID**: 86046 **CODE**: 20/68 **PAYMENT**: CC: Visa

MAKE/MODEL: FUEL TYPE:

Differential Jaguar

OIL TYPE & GRADE: OIL USE INTERVAL: 75W/90 Gear Lube 45,000 Miles

ADDITIONAL INFO:

SLIENT

OMMENTS

DEVIN: This is the factory oil for the rear diff so that's partly why silicon (sealers) and metals are high (new units generate extra metal as they're breaking in), but we're not sure all is well given the extremely high insolubles at an alarming 40.0% of the sample. The thick viscosity and solids go hand in hand, showing heavy oil oxidation. If this differential functions well for you, hopefully your recent oil change will bring progress, but we certainly can't rule out the idea of a problem at this point. No water was found. Resample in <5K miles to monitor & seek inspection if necessary.

MI/HR on Oil MI/HR on Unit Sample Date Make Up Oil Added	45,000 45,000 10/9/2021 0 qts	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
ALUMINUM	13	13						2
IRON	938	938						315
COPPER LEAD	26	26 1						3 1
TIN MOLYBDENUM	1	<u>1</u> 3						3 2
NICKEL MANGANESE	2 77	2 77						1 8
SILVER	0	0						0
POTASSIUM	5	5						6
SILICON	2 129	2 129						162 59
SODIUM CALCIUM	11 14	11 14						4 86
MAGNESIUM	6	6 2353						111 1236
ZINC	129	129						52 3
	MI/HR on Unit Sample Date Make Up Oil Added ALUMINUM CHROMIUM IRON COPPER LEAD TIN MOLYBDENUM NICKEL MANGANESE SILVER TITANIUM POTASSIUM BORON SILICON SODIUM CALCIUM MAGNESIUM PHOSPHORUS	MI/HR on Unit 45,000 Sample Date 10/9/2021 Make Up Oil Added 0 qts ALUMINUM 13 CHROMIUM 11 IRON 938 COPPER 26 LEAD 1 TIN 1 MOLYBDENUM 3 NICKEL 2 MANGANESE 77 SILVER 0 TITANIUM 1 POTASSIUM 5 BORON 2 SILICON 129 SODIUM 11 CALCIUM 14 MAGNESIUM 6 PHOSPHORUS 2353 ZINC 129	MI/HR on Unit 45,000 Sample Date 10/9/2021 Make Up Oil Added 0 qts ALUMINUM 13 13 CHROMIUM 11 11 IRON 938 938 COPPER 26 26 LEAD 1 1 TIN 1 1 MOLYBDENUM 3 3 NICKEL 2 2 MANGANESE 77 77 SILVER 0 0 TITANIUM 1 1 POTASSIUM 5 5 BORON 2 2 SILICON 129 129 SODIUM 11 11 CALCIUM 14 14 MAGNESIUM 6 6 PHOSPHORUS 2353 2353 ZINC 129 129	MI/HR on Unit 45,000 Sample Date 10/9/2021 Make Up Oil Added 0 qts ALUMINUM 13 13 CHROMIUM 11 11 IRON 938 938 COPPER 26 26 LEAD 1 1 TIN 1 1 MOLYBDENUM 3 3 NICKEL 2 2 MANGANESE 77 77 SILVER 0 0 TITANIUM 1 1 POTASSIUM 5 5 BORON 2 2 SILICON 129 129 SODIUM 11 11 CALCIUM 14 14 MAGNESIUM 6 6 PHOSPHORUS 2353 2353 ZINC 129 129	MI/HR on Unit	MI/HR on Unit	MI/HR on Unit 45,000 Sample Date 10/9/2021 LOCATION AVERAGES Make Up Oil Added 0 qts ALUMINUM 13 13 CHROMIUM 11 11 IRON 938 938 COPPER 26 26 LEAD 1 1 TIN 1 1 MOLYBDENUM 3 3 NICKEL 2 2 MANGANESE 77 77 SILVER 0 0 TITANIUM 1 1 POTASSIUM 5 5 BORON 2 2 SILICON 129 129 SODIUM 11 11 CALCIUM 14 14 MAGNESIUM 6 6 PHOSPHORUS 2353 2353 ZINC 129 129	MI/HR on Unit 45,000 Sample Date 10/9/2021 Make Up Oil Added 0 qts AUMINUM 13 13 13 CHROMIUM 11 11 11 IRON 938 938 COPPER 26 26 LEAD 1 1 1 1 TIN 1 1 1 1 MOLYBDENUM 3 3 3 NICKEL 2 2 2 MANGANESE 77 77 SILVER 0 0 0 TITANIUM 1 1 1 POTASSIUM 5 5 5 BORON 2 2 2 SILICON 129 129 SUNC 129 129 INIT / LOCATION AVERAGES UNIT / LOCATION AVERAGES NAVERAGES NAVERAGES AVERAGES O Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q

Values Should Be*

SUS Viscosity @ 210°F	143.2	67-80			
cSt Viscosity @ 100°C	30.17	12.2-15.8			
Flashpoint in °F	420	>370			
Fuel %	-				
Antifreeze %	-				
Water %	0.0	0.0			
Insolubles %	40.0	<0.6			
TBN					
TAN					
ISO Code					

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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