



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

UNIT	MAKE/MODEL: Differential Jaguar	OIL TYPE & GRADE: 75W/90 Gear Lube
	FUEL TYPE:	OIL USE INTERVAL: 45,000 Miles
	ADDITIONAL INFO:	

CLIENT	
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COMMENTS 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.

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

Values Should Be*

PROPERTIES	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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