



OIL REPORT

LAB NUMBER:
 REPORT DATE: 10/8/2020
 CODE: 63/68

UNIT ID:
 CLIENT ID:
 PAYMENT:

UNIT	EQUIP. MAKE/MODEL: Land Rover 5.0L V-8	OIL TYPE & GRADE: Gasoline Engine Oil
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: Miles
	ADDITIONAL INFO: #259	

CLIENT	PHONE:
	FAX:
	ALT PHONE:
	EMAIL:

COMMENTS Note the high levels of aluminum and iron in this first report. Aluminum can show wear at the pistons/bearings, and iron can show wear at any steel parts (e.g. cylinders, shafts). For comparison, averages for the 5.0 V-8 are based on a ~7,400 miles of oil use. If any recent work was done, metals might show wear-in from new parts. Although, we typically see silicon from sealers/lubes when that's the case. No contamination was noted, and the viscosity was normal. If this Rover runs well and makes no odd noises, resample in 2,000-3,000 miles to monitor.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil		UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	91,741						
	Sample Date	9/12/2020						
	Make Up Oil Added							
ALUMINIUM	29	29					8	
CHROMIUM	1	1					0	
IRON	61	61					22	
COPPER	2	2					1	
LEAD	0	0					0	
TIN	0	0					0	
MOLYBDENUM	75	75					79	
NICKEL	0	0					0	
MANGANESE	2	2					1	
SILVER	0	0					0	
TITANIUM	22	22					10	
POTASSIUM	8	8					2	
BORON	23	23					55	
SILICON	11	11					6	
SODIUM	15	15					47	
CALCIUM	988	988					1805	
MAGNESIUM	722	722					384	
PHOSPHORUS	675	675					687	
ZINC	766	766					795	
BARIUM	0	0					0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	56.7				
	cSt Viscosity @ 100°C	9.27				
	Flashpoint in °F	390	>375			
	Fuel %	<0.5	<2.0			
	Antifreeze %	0.0	0.0			
	Water %	0.0	0.0			
	Insolubles %	0.2	<0.6			
	TBN					
	TAN					
	ISO Code					

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com