



OIL REPORT

LAB NUMBER: S251360
 REPORT DATE: 7/10/2025
 CODE: 20/1,487

UNIT ID: 18 DISCOVERY
 CLIENT ID: 156420
 PAYMENT: CC Online

UNIT	MAKE/MODEL: Land Rover 3.0L V-6 TD6	OIL TYPE & GRADE: Castrol Edge 0W/30
	FUEL TYPE: Diesel	OIL USE INTERVAL: 5,390 Miles
	ADDITIONAL INFO:	

CLIENT	KEITH THOMAS	PHONE: (909) 518-7472
	1347 PASEO CORRIDO	FAX:
	SAN DIMAS, CA 91773	ALT PHONE: (907) 621-1215
		EMAIL: 5Xdriver@gmail.com

COMMENTS
 KEITH: Thanks for letting us know about the metal you found in the filter. We didn't find any visible metal on our end, but iron did increase in the spectral results. Other metals are in good shape, so hopefully the increase at iron is just related to something situational like heavy hauling or a lot of mountain driving. Still, this level is at the higher end of average, and this is the second report where it's increased, so we'll want to keep a close eye on how iron trends. The viscosity is thin, but not due to fuel this time. The TBN is fine at 3.4, but stick with a similar run to compare.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	5,390	UNIT / LOCATION AVERAGES	6,826	4,940	6,920	5,099	5,196	UNIVERSAL AVERAGES
	MI/HR on Unit	51,890		46,487	39,294	34,354	27,395	22,296	
	Sample Date	6/23/2025		11/15/2024	4/18/2024	11/9/2023	5/23/2023	1/11/2023	
	Make Up Oil Added	0 qts		0 qts	0 qts	0 qts	0 qts	0 qts	
ALUMINUM	17	12	18	17	34	12	13	10	
CHROMIUM	2	2	2	1	2	2	2	1	
IRON	93	83	78	62	63	52	65	52	
COPPER	6	5	6	5	8	8	11	5	
LEAD	0	0	0	0	0	0	0	0	
TIN	0	0	0	0	2	1	0	0	
MOLYBDENUM	74	48	81	112	753	756	464	52	
NICKEL	1	0	1	0	1	1	1	0	
MANGANESE	1	1	1	1	1	1	8	1	
SILVER	3	5	4	3	5	6	7	4	
TITANIUM	1	24	4	22	25	24	23	16	
POTASSIUM	1	1	0	0	2	0	15	3	
BORON	114	26	72	5	23	19	30	36	
SILICON	5	4	5	4	13	13	17	11	
SODIUM	3	2	3	2	5	5	11	4	
CALCIUM	1495	1509	1388	960	1760	1796	1597	1263	
MAGNESIUM	8	8	9	3	3	3	59	182	
PHOSPHORUS	652	522	675	325	603	654	580	563	
ZINC	794	614	754	422	691	738	695	654	
BARIUM	0	0	0	0	0	0	0	0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	58.7	60-69	52.7	51.7	52.1	53.8	52.2
	cSt Viscosity @ 100°C	9.86	10.2-13.0	8.08	7.79	7.90	8.42	7.94
	Flashpoint in °F	415	>410	390	415	430	390	375
	Fuel %	<0.5	<2.0	2.0	<0.5	<0.5	2.0	3.5
	Antifreeze %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.4	<0.6	0.3	0.2	0.1	0.3	0.4
	TBN	3.4	>2.0	2.4	1.2	2.6	2.8	2.0
	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