



OIL REPORT

LAB NUMBER: H58518

UNIT ID: 15 ECODIESEL

REPORT DATE: 6/21/2016

CLIENT ID: 78300

CODE: 20/37

PAYMENT: CC: Visa (Bulk)

UNIT

MAKE/MODEL: VM Motori diesel 3.0L DOHC V-6 Eco D
FUEL TYPE: Diesel
ADDITIONAL INFO: Ram

OIL TYPE & GRADE: Diesel Engine Oil
OIL USE INTERVAL: 4,100 Miles

CLIENT

TODD
T&C DIESEL
1060 118TH LANE
BLAINE, MN 55434

PHONE: (763) 228-7121
FAX:
ALT PHONE:
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COMMENTS

TODD: We don't have any complaints to file regarding the wear metals in this latest sample from your Ram. The only concern here is sodium. It can show coolant contamination, but this isn't enough to call that for sure. Potassium usually accompanies coolant and it's very low and steady, so that's a good sign. At least if this is coolant, it's not enough to cause any harm that we can see. If this oil is still in use, you might change it out just to be safe. The viscosity is in the 15W/40 or 5W/40 range and that's fine. Air and oil filtration look good. Check back in 4,000 miles again.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	4,100	UNIT / LOCATION AVERAGES					
	MI/HR on Unit	22,100		18,000				
	Sample Date	6/13/2016		5/29/2016	3/1/2016			
	Make Up Oil Added							
	ALUMINUM	3		4	6	4		6
	CHROMIUM	1		1	1	1		1
	IRON	8		13	19	12		34
	COPPER	1		1	2	1		3
	LEAD	0		1	1	1		0
	TIN	0		1	1	3		1
	MOLYBDENUM	52		57	63	57		23
	NICKEL	0		1	1	1		1
	MANGANESE	0		0	0	1		1
	SILVER	0		0	0	0		1
	TITANIUM	0		0	0	0		0
	POTASSIUM	6		5	5	5		14
	BORON	40		42	38	48		53
	SILICON	3		6	8	7		14
	SODIUM	35		15	4	5		3
	CALCIUM	978		949	937	932		1595
	MAGNESIUM	917		973	999	1002		62
	PHOSPHORUS	981		965	940	973		684
	ZINC	1164		1128	1140	1080		806
	BARIUM	0		0	0	0		0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	71.2		72.2	68.1		
	cSt Viscosity @ 100°C	13.27		13.52	12.45		
	Flashpoint in °F	420	>415	455	420		
	Fuel %	<0.5	<2.0	<0.5	<0.5		
	Antifreeze %	?	0.0	0.0	0.0		
	Water %	0.0	0.0	0.0	0.0		
	Insolubles %	0.3	<0.6	0.3	0.2		
	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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