

OIL REPORT

LAB NUMBER: 9/6/2016

CODE: 20/37

UNIT ID: 15 ECODIESEL

CLIENT ID: CC: Visa (Bulk)

Shell Rotella T6 5W/40

LIN

MAKE/MODEL: VM Motori diesel 3.0L DOHC V-6 Eco D

OOHC V-6 Eco D OIL TYPE & GRADE:

OIL USE INTERVAL: Miles

ADDITIONAL INFO: Ram

Diesel

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

FUEL TYPE:

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OMMENTS

TODD: Sodium was on our radar last time since it might have showed coolant contamination. There's a lot less sodium here though, and we're still not seeing much potassium, so we would be surprised if coolant is a problem for this Eco Diesel. Wear metals are nice and low compared to averages and past results, so all is well mechanically. Air and oil filtration look good too, shown by the low silicon and insolubles. The viscosity was fine for 5W/40, and no excess fuel was found. If there are any problems in the works, they aren't showing up in the used oil. Nice!

	MI/HR on Oil		I OCAHON :	4,100				
	MI/HR on Unit	26,700		22,100	18,000			UNIVERSAL
	Sample Date	8/31/2016		6/13/2016	5/29/2016	3/1/2016		AVERAGES
	Make Up Oil Added							
ER MILLION	ALUMINUM	3	4	3	6	4		6
	CHROMIUM	1	1	1	1	1		1
	IRON	9	12	8	19	12		33
	COPPER	1	1	1	2	1		3
	LEAD	0	1	0	1	1		0
Д	TIN	0	1	0	1	3		1
IN PARTS	MOLYBDENUM	67	60	52	63	57		24
	NICKEL	0	1	0	1	1		1
	MANGANESE	0	0	0	0	1		1
	SILVER	0	0	0	0	0		2
S	TITANIUM	0	0	0	0	0		0
ΙĔ	POTASSIUM	2	5	6	5	5		13
	BORON	48	44	40	38	48		56
E	SILICON	4	6	3	8	7		14
H	SODIUM	10	14	35	4	5		3
	CALCIUM	845	923	978	937	932		1564
	MAGNESIUM	1214	1033	917	999	1002		84
	PHOSPHORUS	1092	997	981	940	973		696
	ZINC	1295	1170	1164	1140	1080		820
	BARIUM	0	0	0	0	0		0

Values

Should Be*

SUS Viscosity @ 210°F	72.6	66-78	71.2	72.2	68.1	
cSt Viscosity @ 100°C	13.64	11.9-15.3	13.27	13.52	12.45	
Flashpoint in °F	420	>410	420	455	420	
Fuel %	<0.5	<2.0	<0.5	<0.5	<0.5	
Antifreeze %	0.0	0.0	?	0.0	0.0	
Water %	0.0	0.0	0.0	0.0	0.0	
Insolubles %	0.3	<0.6	0.3	0.3	0.2	
TBN						
TAN					·	
ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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