



OIL REPORT

LAB NUMBER:

UNIT ID: 15 ECODIESEL

REPORT DATE: 8/16/2017

CLIENT ID:

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: Shell Rotella T6 5W/40
OIL USE INTERVAL: 3,000 Miles

CLIENT

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

PHONE: (763) 228-7121
FAX:
ALT PHONE:
EMAIL: todd@tcdiesel.com

COMMENTS

TODD: The fuel from the previous report went away, so it looks like that was probably just a temporary thing due to idling or taking the previous sample cold. No moisture, dirt, or other contaminants were found either, so this oil is in good shape physically. The viscosity is correct for a 5W/40. Wear metals are lower than last time, thanks to the shorter oil change - that's exactly what we should be seeing. Nice, steady report! This EcoDiesel is in great shape.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	3,000	UNIT / LOCATION AVERAGES	6,000		4,100			UNIVERSAL AVERAGES
	MI/HR on Unit	34,500		32,000	26,700	22,100	18,000		
	Sample Date	8/6/2017		6/2/2017	8/31/2016	6/13/2016	5/29/2016	3/1/2016	
	Make Up Oil Added	0 qts		0 qts					
	ALUMINUM	2	4	5	3	3	6	4	6
	CHROMIUM	0	1	1	1	1	1	1	1
	IRON	8	13	19	9	8	19	12	30
	COPPER	1	1	2	1	1	2	1	3
	LEAD	0	0	0	0	0	1	1	0
	TIN	0	1	1	0	0	1	3	0
	MOLYBDENUM	70	63	69	67	52	63	57	30
	NICKEL	0	1	1	0	0	1	1	0
	MANGANESE	0	0	0	0	0	0	1	1
	SILVER	0	0	0	0	0	0	0	2
	TITANIUM	0	0	0	0	0	0	0	0
	POTASSIUM	2	4	3	2	6	5	5	16
	BORON	57	46	44	48	40	38	48	61
	SILICON	5	6	8	4	3	8	7	12
	SODIUM	6	11	6	10	35	4	5	5
CALCIUM	819	890	827	845	978	937	932	1397	
MAGNESIUM	1280	1108	1238	1214	917	999	1002	296	
PHOSPHORUS	1111	1034	1104	1092	981	940	973	762	
ZINC	1312	1213	1287	1295	1164	1140	1080	894	
BARIUM	0	0	0	0	0	0	0	0	

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	71.5	66-78	70.3	72.6	71.2	72.2	68.1
	cSt Viscosity @ 100°C	13.34	11.9-15.3	13.04	13.64	13.27	13.52	12.45
	Flashpoint in °F	420	>410	400	420	420	455	420
	Fuel %	<0.5	<2.0	1.0	<0.5	<0.5	<0.5	<0.5
	Antifreeze %	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 %	0.2	<0.6	0.3	0.3	0.3	0.3	0.2
	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