

OIL REPORT

LAB NUMBER: F18648 **REPORT DATE:** 9/6/2012

CLIENT ID: 17684

UNIT ID: HO3500 SRW

CODE: 22/461 PAYMENT: CC: Visa (Bulk)

LIN

MAKE/MODEL: Cummins ISB 6.7L

Diesel

ADDITIONAL INFO: 2011 Dodge Ram 3500 HD

OIL TYPE & GRADE: Chevron Delo 400 LE 15W/40

OIL USE INTERVAL: 6,580 Miles

MICHAEL LOFTIS

FUEL TYPE:

PHONE: (208) 431-6652 FAX:

21191 E. MULLAN RD. CLINTON, MT 59825

ALT PHONE:

EMAIL: mloftis@wgops.com

OMMENTS

CLIENT

MICHAEL: We went into detail about the excess potassium and aluminum in the last sample, and while these two metals are likely coming from the EGR system, we will continue to keep tabs on both in the future. All other wear metals read normally, though iron (from steel parts) did increase quite a bit. The iron could come from hard use/heavy hauling or periods of extra idling. Mountain driving in western Montana could certainly play a role. Whatever the cause, the extra iron isn't enough to cause concern. The TBN of 2.3 shows that the oil held up well after 6,580 miles.

	MI/HR on Oil	6,580		5,971			
	MI/HR on Unit	23,282	UNIT / LOCATION	16,702			UNIVERSAL AVERAGES
	Sample Date	08/17/12		05/26/12			
	Make Up Oil Added	0 qts		0 qts			
MILLION	ALUMINUM	15	15	14			4
	CHROMIUM	2	2	1			1
	IRON	40	37	33			26
	COPPER	4	5	5			6
ER	LEAD	1	1	0			2
Д	TIN	1	1	1			1
TS	MOLYBDENUM	83	47	10			14
AR.	NICKEL	1	1	0			0
Ь	MANGANESE	1	1	1			0
Z	SILVER	0	0	0			0
S	TITANIUM	0	0	0			0
Ĕ	POTASSIUM	36	40	43			6
EN	BORON	445	238	30			27
\subseteq	SILICON	6	6	5			7
ELEME	SODIUM	4	4	3			4
	CALCIUM	1715	1913	2110			2145
	MAGNESIUM	375	203	31			234
	PHOSPHORUS	1100	998	896			1036
	ZINC	1326	1180	1034			1236
	BARIUM	0	0	0			0

Values Should Be*

	SUS Viscosity @ 210°F	79.4	69-81	73.0		
	cSt Viscosity @ 100°C	15.38	12.7-16.0	13.75		
S	Flashpoint in °F	425	>415	395		
	Fuel %	<0.5	<2.0	0.5		
8	Antifreeze %	?	0.0	?		
ROPE	Water %	0.0	<0.1	0.0		
	Insolubles %	0.4	<0.8	0.4		
Б	TBN	2.3	>1.0	4.0		
	TAN					
	ISO Code					

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE