



OIL REPORT

LAB NUMBER: G15808 UNIT ID: HO3500 SRW
 REPORT DATE: 6/10/2014 CLIENT ID: 17684
 CODE: 22/461 PAYMENT: CC: Visa (Bulk)

UNIT	MAKE/MODEL: Cummins ISB 6.7L	OIL TYPE & GRADE: Chevron Delo 400 15W/40
	FUEL TYPE: Diesel	OIL USE INTERVAL: 8,272 Miles
	ADDITIONAL INFO: 2011 Dodge Ram 3500 HD	

CLIENT	MICHAEL LOFTIS	PHONE: (208) 431-6652
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COMMENTS MICHAEL: Aluminum and potassium continue to improve. With any luck, both will be within a normal range next time and we won't have to talk about them anymore. We'll be crossing our fingers. There are still a lot of nice things to report here. There was no fuel present, and most metals (see chrome, iron, copper, and lead) all look great. In any case, this sample isn't showing any new problems developing. The TBN read at 3.9, so try going up to 9,500 miles or so next time.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	8,272	UNIT / LOCATION AVERAGES	8,580	7,200	6,580	5,971	UNIVERSAL AVERAGES
	MI/HR on Unit	47,352		39,080	30,500	23,282	16,702	
	Sample Date	05/21/14		09/14/13	01/15/13	08/17/12	05/26/12	
	Make Up Oil Added	0 qts		0 qts	0 qts	0 qts	0 qts	
ALUMINUM	9	13	12	13	15	14	4	
CHROMIUM	1	1	1	1	2	1	1	
IRON	20	30	24	33	40	33	22	
COPPER	1	3	2	3	4	5	8	
LEAD	0	0	0	0	1	0	1	
TIN	0	0	0	0	1	1	1	
MOLYBDENUM	88	57	90	13	83	10	52	
NICKEL	0	0	0	0	1	0	0	
MANGANESE	0	1	1	1	1	1	0	
SILVER	0	0	0	0	0	0	0	
TITANIUM	0	0	0	0	0	0	1	
POTASSIUM	19	32	24	38	36	43	6	
BORON	506	307	484	69	445	30	148	
SILICON	5	5	5	4	6	5	6	
SODIUM	0	3	1	5	4	3	5	
CALCIUM	1663	1924	1904	2228	1715	2110	1713	
MAGNESIUM	443	266	426	55	375	31	542	
PHOSPHORUS	1191	1082	1250	974	1100	896	1110	
ZINC	1397	1284	1484	1178	1326	1034	1294	
BARIUM	0	0	0	0	0	0	0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	75.2	69-82	74.1	78.3	79.4	73.0
	cSt Viscosity @ 100°C	14.31	12.7-16.3	14.03	15.10	15.38	13.75
	Flashpoint in °F	445	>405	410	430	425	395
	Fuel %	<0.5	<2.0	0.5	<0.5	<0.5	0.5
	Antifreeze %	?	0.0	?	?	?	?
	Water %	0.0	<0.1	0.0	0.0	0.0	0.0
	Insolubles %	0.3	<0.7	0.1	0.4	0.4	0.4
	TBN	3.9	>1.0	4.4	6.4	2.3	4.0
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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