



OIL REPORT

LAB NUMBER:

UNIT ID: 13 RAM 3500

REPORT DATE: 12/28/2016

CLIENT ID: CODE:

PAYMENT: CC: Visa (Bulk)

UNIT

MAKE/MODEL: Cummins ISB 6.7L (Pickup)
FUEL TYPE: Diesel
ADDITIONAL INFO:

OIL TYPE & GRADE: Shell Rotella T6 5W/40
OIL USE INTERVAL: 6,000 Miles

CLIENT

TODD WESTPHAL
T&C DIESEL
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COMMENTS

TODD: We don't see any obvious problems in the second sample for this Ram. Aluminum and potassium are still elevated, but we're leaning towards those being from something harmless like the intercooler. We've unmarked potassium, but we'll still keep an eye on aluminum since it can show piston wear. Iron and copper are still on the high side, but are certainly coming down. There could very well still be wear-in material hanging around, not to mention that hard use could be causing wear to read higher than we might otherwise expect. No fuel or coolant was found.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	6,000	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	30,000		9,000				
	Sample Date	12/21/2016		11/22/2014				
	Make Up Oil Added	0 qts						
	ALUMINUM	9	13	16				3
	CHROMIUM	1	3	5				1
	IRON	43	71	99				24
	COPPER	15	112	208				7
	LEAD	0	1	1				1
	TIN	0	0	0				1
	MOLYBDENUM	140	218	296				34
	NICKEL	0	1	2				0
	MANGANESE	1	2	3				0
	SILVER	0	1	1				0
	TITANIUM	0	0	0				2
	POTASSIUM	21	31	40				8
	BORON	33	22	10				50
	SILICON	11	12	13				5
	SODIUM	7	10	13				6
	CALCIUM	896	1100	1304				1655
	MAGNESIUM	1103	1037	971				584
	PHOSPHORUS	1035	1055	1074				1026
	ZINC	1270	1241	1211				1219
	BARIUM	0	1	2				0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	71.5	66-78	73.5			
	cSt Viscosity @ 100°C	13.34	11.9-15.3	13.87			
	Flashpoint in °F	445	>410	450			
	Fuel %	<0.5	<2.0	<0.5			
	Antifreeze %	0.0	0.0	?			
	Water %	0.0	0.0	0.0			
	Insolubles %	0.3	<0.6	0.4			
	TBN			5.2			
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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