

OIL REPORT LAB NUMBER: H92532

UNIT ID: 2014 RAM CUMMINS

REPORT DATE: 11/18/2016 **CLIENT ID: 71227** PAYMENT: CC: Visa CODE: 44/685

MAKE/MODEL: Cummins ISB 6.7L (Pickup) FUEL TYPE: Diesel ADDITIONAL INFO: 3500

OIL TYPE & GRADE:

Shell Rotella T 15W/40

OIL USE INTERVAL: 6,850 Miles

CHAD: It's fine to take the sample from the filter. There is some excess metal here. Aluminum typically shows piston wear and iron is from steel parts. Copper shows brass/bronze wear. Potassium can show coolant, but we sometimes see potassium and aluminum in new diesels, probably from the intercooler or maybe emissions systems. That's not going to explain the iron and copper though. Even though the TBN is fine at 5.3, a shorter run is recommended until we get some idea of which direction these metals are heading. Check back in 5,000 miles or so.

MI/HR on Oil	6,850	Osting C				
MVHR on Unit		UNIT /				UNIVERSAL
Sample Date	8/24/2016	AVERAGES				AVERAGES
Make Up Oil Added	0 qts					
ALUMINUM	9	9				3
ALUMINUM CHROMIUM IRON	1	1				1
IRON	65	65				24
COFFER	20	20				7
LEAD	0	0				1
a. TIN	0	0				1
MOLYBDENUM	60	60				34
NICKEL	0	0		j j		
MANGANESE	1	1				0
SILVER	0	0				0
TITANIUM	0	0				2 8
POTASSIUM	26	26				8
POTASSIUM BORON SILICON SODIUM	106	106				50
SILICON	10	10				50 5
SODIUM	5	5				6
CALCIUM	1591	1591				1657
MAGNESIUM	433	433				584
PHOSPHORUS	935	935				1027
ZINC	1166	1166				1219
BARIUM	0	0				0
		Values Should Be*				
SUS Viscosity @ 210°F	74.8	69-80				1
cSt Viscosity @ 100°C	14.20	12.7-15.8				ľ

	SUS Viscosity @ 210*F	74.8	69-80		
PROPERTIES	cSt Viscosity @ 100°C	14.20	12.7-15.8		
	Flashpoint in *F	430	>410		
	Fuel %	<0.5	<2.0		
	Antifreeze %	?	0		
	Water %	0.0	0.0		
	Insolubles %	0.3	<0.6 >1.0		
	TBN	5.3	>1.0		74
	TAN				
	ISO Code				- i

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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