



OIL REPORT

LAB NUMBER:

REPORT DATE: 12/13/2019

CODE:

UNIT ID: 13 RAM 3500

CLIENT ID

PAYMENT: Bulk CC

UNIT

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

OIL TYPE & GRADE: Shell Rotella T6 5W/40
OIL USE INTERVAL: 7,000 Miles

CLIENT

TODD TC DIESEL
1060 118TH LN
BLAINE, MN 55434

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COMMENTS

TODD: Things have shaped up quite nicely for this Ram, earning its first highlight-free report. Aluminum, iron, and copper have all come down and are now very close to universal averages. This probably means the last of the wear-in material has washed out, leaving that phase of this engine's life behind. We unhighlighted potassium last time, and it continued its downward trend this sample as well. The viscosity is where it should be for a 5W/40 oil, and there is no detectable fuel. Oil filtration was effective, with insolubles at 0.3%. Great report!

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	7,000	UNIT / LOCATION AVERAGES	6,000					UNIVERSAL AVERAGES
	MI/HR on Unit	46,000		30,000	9,000				
	Sample Date	12/5/2019		12/21/2016	11/22/2014				
	Make Up Oil Added			0 qts					
	ALUMINUM	6	10	9	16				4
	CHROMIUM	1	2	1	5				1
	IRON	28	57	43	99				24
	COPPER	3	75	15	208				6
	LEAD	0	0	0	1				1
	TIN	0	0	0	0				0
	MOLYBDENUM	1	146	140	296				32
	NICKEL	0	1	0	2				0
	MANGANESE	0	1	1	3				0
	SILVER	0	0	0	1				0
	TITANIUM	1	0	0	0				2
	POTASSIUM	12	24	21	40				9
	BORON	128	57	33	10				67
	SILICON	5	10	11	13				5
	SODIUM	6	9	7	13				6
	CALCIUM	1805	1335	896	1304				1705
	MAGNESIUM	84	719	1103	971				522
	PHOSPHORUS	891	1000	1035	1074				1028
	ZINC	1026	1169	1270	1211				1202
	BARIUM	0	1	0	2				0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	72.2	66-78	71.5	73.5			
	cSt Viscosity @ 100°C	13.53	11.9-15.3	13.34	13.87			
	Flashpoint in °F	440	>410	445	450			
	Fuel %	<0.5	<2.0	<0.5	<0.5			
	Antifreeze %	0.0	0.0	0.0	?			
	Water %	0.0	0.0	0.0	0.0			
	Insolubles %	0.3	<0.6	0.3	0.4			
	TBN				5.2			
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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