



OIL REPORT

LAB NUMBER: G47656

UNIT ID: 13 RAM 3500

REPORT DATE: 12/1/2014

CLIENT ID: 78300

CODE: 20/501

PAYMENT: CC: Visa

UNIT

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

OIL TYPE & GRADE: Schaeffer 9000 5W/40
OIL USE INTERVAL: Miles

CLIENT

PHONE: (763) 228-7121

FAX:

ALT PHONE:

EMAIL: todd@tcdiesel.com

COMMENTS

TODD: Assuming this is the factory fill for the engine oil, these metals are from new parts and the silicon is from harmless sealers. Otherwise, aluminum, chrome, iron, and copper show wear at the pistons/bearings, rings, steel, and brass/bronze parts. Potassium and aluminum are probably from the emission system, but potassium, silicon, and sodium could show coolant too. Silicon may also be abrasive dirt getting past the air filter, so give it a quick inspection to make sure all is well. The TBN was good at 5.2 - lots of active additive left. Try this interval again next and check back.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil		UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit	9,000							
	Sample Date	11/22/14							
	Make Up Oil Added								
	ALUMINUM	16	16						3
	CHROMIUM	5	5						1
	IRON	99	99						24
	COPPER	208	208						8
	LEAD	1	1						1
	TIN	0	0						1
	MOLYBDENUM	296	296						34
	NICKEL	2	2						0
	MANGANESE	3	3						0
	SILVER	1	1						0
	TITANIUM	0	0						2
	POTASSIUM	40	40						7
	BORON	10	10						45
	SILICON	13	13						5
	SODIUM	13	13						6
	CALCIUM	1304	1304						1624
	MAGNESIUM	971	971						589
	PHOSPHORUS	1074	1074						1023
	ZINC	1211	1211						1204
	BARIUM	2	2						0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	73.5	65-76					
	cSt Viscosity @ 100°C	13.87	11.6-14.8					
	Flashpoint in °F	450	>410					
	Fuel %	<0.5	<2.0					
	Antifreeze %	?	0.0					
	Water %	0.0	<0.1					
	Insolubles %	0.4	<0.8					
	TBN	5.2	>1.0					
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com