



# OIL REPORT

LAB NUMBER: G61546

UNIT ID: 1

REPORT DATE: 2/20/2015

CLIENT ID: 80468

CODE: 20/75

PAYMENT: CC: AmEx

<b>UNIT</b>	MAKE/MODEL: Cummins ISB 5.9L (Pickup)	OIL TYPE & GRADE: Diesel Engine Oil
	FUEL TYPE: Diesel	OIL USE INTERVAL: Miles
	ADDITIONAL INFO: 2005 Ram 2500	

<b>CLIENT</b>	RYAN JAMES	PHONE: (817) 846-4492
	2327 WISE ROAD	FAX:
	GRAND PRAIRIE, TX 75052	ALT PHONE:
		EMAIL: ryan@mac2.net

**COMMENTS** RYAN: Thanks for the note about the knock. All the wear metals in this sample look normal, so we don't see any obvious reason for it here. That's good, because if the knock was a sign of poor piston or bearing wear, it would probably show up as high metals, so at least we can be pretty confident you don't have a major mechanical issue developing. Of course, the downside is, we can't really help you diagnose where the knock is coming from. No contaminants or other issues were found. Averages are based on ~6,800 miles of oil use. Check back next oil to build trends.

<b>ELEMENTS IN PARTS PER MILLION</b>	MI/HR on Oil		<b>UNIT / LOCATION AVERAGES</b>					<b>UNIVERSAL AVERAGES</b>
	MI/HR on Unit	157,000						
	Sample Date	02/15/15						
	Make Up Oil Added							
ALUMINUM	2	2						3
CHROMIUM	0	0						1
IRON	29	29						25
COPPER	2	2						5
LEAD	2	2						2
TIN	0	0						1
MOLYBDENUM	99	99						38
NICKEL	0	0						0
MANGANESE	0	0						0
SILVER	0	0						1
TITANIUM	0	0						1
POTASSIUM	5	5						5
BORON	67	67						82
SILICON	4	4						5
SODIUM	10	10						5
CALCIUM	1871	1871						2211
MAGNESIUM	5	5						427
PHOSPHORUS	665	665						1110
ZINC	807	807						1296
BARIUM	0	0						0

Values Should Be\*

<b>PROPERTIES</b>	SUS Viscosity @ 210°F	77.6					
	cSt Viscosity @ 100°C	14.93					
	Flashpoint in °F	455	>415				
	Fuel %	<0.5	<2.0				
	Antifreeze %	0.0	0.0				
	Water %	0.0	<0.1				
	Insolubles %	TR	<0.6				
	TBN						
	TAN						
	ISO Code						

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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