



# OIL REPORT

LAB NUMBER: G61546

UNIT ID: 1

REPORT DATE: 2/20/2015

CLIENT ID: 80468

CODE: 20/75

PAYMENT: CC: AmEx

**UNIT**

MAKE/MODEL: Cummins ISB 5.9L (Pickup)  
FUEL TYPE: Diesel  
ADDITIONAL INFO: 2005 Ram 2500

OIL TYPE & GRADE: Diesel Engine Oil  
OIL USE INTERVAL: Miles

**CLIENT**

RYAN JAMES  
2327 WISE ROAD  
GRAND PRAIRIE, TX 75052

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**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.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil		UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	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\*

PROPERTIES	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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