



OIL REPORT

LAB NUMBER:
 REPORT DATE: 7/15/2015
 CODE:

UNIT ID: D1
 CLIENT ID:
 PAYMENT:

UNIT	MAKE/MODEL: Cummins ISB 5.9L (Pickup)	OIL TYPE & GRADE: Valvoline Premium Blue 15W/40
	FUEL TYPE: Diesel	OIL USE INTERVAL: 10,000 Miles
	ADDITIONAL INFO: ISB, 2001 Dodge Ram 2500	

CLIENT	jrs_dodge_diesel	PHONE:
		FAX:
		ALT PHONE:
		EMAIL:

COMMENTS jrs_dodge_diesel : Thanks for the note about the air filter. Silicon was low at 4 ppm, so the tear didn't seem to allow any abrasive dirt into the engine - at least none that we can see. The fact that wear metals are relatively low supports that too since dirt would normally cause excess wear. Your metals line up nicely with universal averages, which as a reminder, show typical wear after ~6,800 miles of oil use. The high titanium is just additive in the oil, not a poorly wearing part. The low viscosity isn't a concern, especially since it wasn't due to contamination. Looking good from here!

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	10,000	UNIT / LOCATION AVERAGES	7,550				UNIVERSAL AVERAGES
	MI/HR on Unit	141,115		100,350				
	Sample Date	6/28/2015		7/25/2007				
	Make Up Oil Added	0 qts		0 qts				
ALUMINUM	4	6	8					3
CHROMIUM	3	5	6					1
IRON	24	27	29					25
COPPER	1	2	2					5
LEAD	4	3	2					2
TIN	4	2	0					1
MOLYBDENUM	56	75	93					38
NICKEL	0	0	0					0
MANGANESE	0	0	0					0
SILVER	0	0	0					1
TITANIUM	31	16	0					2
POTASSIUM	3	2	0					5
BORON	4	56	108					82
SILICON	4	5	5					5
SODIUM	6	3	0					5
CALCIUM	1481	2477	3472					2194
MAGNESIUM	1344	677	10					435
PHOSPHORUS	1281	1200	1118					1111
ZINC	1637	1552	1466					1298
BARIUM	0	0	0					0

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	67.7	69-81	69.1			
	cSt Viscosity @ 100°C	12.34	12.7-16.0	12.72			
	Flashpoint in °F	420	>390	420			
	Fuel %	<0.5	<2.0	<0.5			
	Antifreeze %	0.0	0.0	0.0			
	Water %	0.0	<0.1	0.0			
	Insolubles %	0.3	<0.6	0.3			
	TBN						
	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