



# OIL REPORT

LAB NUMBER: F62114  
 REPORT DATE: 7/3/2013  
 CODE:

UNIT ID: 08 CUMMINS  
 CLIENT ID:  
 PAYMENT:

UNIT	MAKE/MODEL: Cummins ISB 6.7L (Pickup)	OIL TYPE & GRADE: Valvoline Premium Blue 15W/40
	FUEL TYPE: Diesel	OIL USE INTERVAL: 7,822 Miles
	ADDITIONAL INFO: 2008	

CLIENT	CARBONITECUMMINS.COM	PHONE:
		FAX:
		ALT PHONE:
		EMAIL:

**COMMENTS**  
 JOHN: Thanks for the note about the new commute. We do have some extra metal here, but nothing that we haven't seen before. Maybe the short trips are causing a little extra wear, but it's hard to say for sure. The big picture is still that the engine is wearing well, so we have no serious complaints. The viscosity was a shade on the thin side last time, but it's right where it should be for 15W/40 this time. There's no fuel or coolant to worry about, and the air and oil filters kept silicon and insolubles low. Some slight increases in wear, but still looking good at 71,935 miles.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	7,822	UNIT / LOCATION AVERAGES	8,062	7,455	3,428	7,484	7,831	UNIVERSAL AVERAGES
	MI/HR on Unit	71,935		64,113	56,051	48,596	45,168	37,684	
	Sample Date	04/20/13		08/29/12	04/06/12	11/26/11	09/06/11	05/09/11	
	Make Up Oil Added	0 qts		0 qts		0 qts	0 qts	0 qts	
ALUMINUM	5	4	6	5	6	17	7	3	
CHROMIUM	1	1	1	1	1	2	2	1	
IRON	20	37	16	16	15	35	44	24	
COPPER	5	9	3	3	3	5	4	7	
LEAD	2	2	2	2	2	5	2	1	
TIN	0	2	0	0	0	0	0	1	
MOLYBDENUM	52	41	43	45	47	50	48	36	
NICKEL	0	0	0	0	0	0	0	0	
MANGANESE	0	1	0	0	0	1	1	0	
SILVER	3	1	1	1	1	1	1	0	
TITANIUM	30	10	27	24	0	0	0	1	
POTASSIUM	6	9	13	9	15	56	24	6	
BORON	6	3	2	1	3	4	5	45	
SILICON	3	8	3	3	3	6	7	6	
SODIUM	6	7	6	6	6	6	4	6	
CALCIUM	1421	1096	1323	1274	1289	1382	1125	1580	
MAGNESIUM	1211	924	1123	1044	994	1054	821	606	
PHOSPHORUS	1318	1039	1109	1131	1235	1251	1071	1020	
ZINC	1543	1240	1309	1316	1389	1451	1262	1200	
BARIUM	0	3	0	0	0	0	0	0	

Values Should Be\*

PROPERTIES	SUS Viscosity @ 210°F	70.2	69-78	68.4	69.9	69.5	72.0	66.2
	cSt Viscosity @ 100°C	13.00	12.7-15.3	12.52	12.94	12.83	13.48	11.94
	Flashpoint in °F	455	>390	450	440	430	450	415
	Fuel %	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5
	Antifreeze %	0.0	0.0	0.0	0.0	0.0	?	?
	Water %	0.0	<0.1	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.3	<0.8	0.3	0.3	0.2	0.2	0.3
	TBN							
	TAN							
	ISO Code							

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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