



# OIL REPORT

LAB NUMBER:  
 REPORT DATE: 9/9/2013  
 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: 7,555 Miles
	ADDITIONAL INFO: 2008	

CLIENT	
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**COMMENTS** JOHN: This is another good sample from this Cummins engine. Wear metals have held fairly steady, showing no signs of new problems in the works. If we compare this sample to the August 2012, we're finding a little more iron from steel parts after a shorter oil run, but it's probably normal for this engine and the use it sees. We're probably not going to lose any sleep over it, and we don't think you should either since it's still well below average after a longer oil run. Physically, the oil held up well and was free of contamination. Keep up the good work with this one!

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	7,555	UNIT / LOCATION AVERAGES	7,822	8,062	7,455	3,428	7,484	UNIVERSAL AVERAGES
	MI/HR on Unit	79,490		71,935	64,113	56,051	48,596	45,168	
	Sample Date	08/12/13		04/20/13	08/29/12	04/06/12	11/26/11	09/06/11	
	Make Up Oil Added	0 qts		0 qts	0 qts		0 qts	0 qts	
ALUMINUM	5	4	5	6	5	6	17	3	
CHROMIUM	1	1	1	1	1	1	2	1	
IRON	21	35	20	16	16	15	35	24	
COPPER	4	9	5	3	3	3	5	7	
LEAD	2	2	2	2	2	2	5	1	
TIN	0	1	0	0	0	0	0	1	
MOLYBDENUM	60	43	52	43	45	47	50	36	
NICKEL	0	0	0	0	0	0	0	0	
MANGANESE	0	1	0	0	0	0	1	0	
SILVER	2	1	3	1	1	1	1	0	
TITANIUM	31	12	30	27	24	0	0	1	
POTASSIUM	9	9	6	13	9	15	56	7	
BORON	2	3	6	2	1	3	4	46	
SILICON	3	8	3	3	3	3	6	5	
SODIUM	11	8	6	6	6	6	6	6	
CALCIUM	1677	1160	1421	1323	1274	1289	1382	1589	
MAGNESIUM	1473	985	1211	1123	1044	994	1054	608	
PHOSPHORUS	1544	1095	1318	1109	1131	1235	1251	1026	
ZINC	1839	1306	1543	1309	1316	1389	1451	1207	
BARIUM	0	2	0	0	0	0	0	0	

Values Should Be\*

PROPERTIES	69.3	69-78	70.2	68.4	69.9	69.5	72.0
SUS Viscosity @ 210°F	69.3	69-78	70.2	68.4	69.9	69.5	72.0
cSt Viscosity @ 100°C	12.78	12.7-15.3	13.00	12.52	12.94	12.83	13.48
Flashpoint in °F	440	>390	455	450	440	430	450
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	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	0.3	0.2	0.2
TBN							
TAN							
ISO Code							

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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