



OIL REPORT

LAB NUMBER:
 REPORT DATE: 8/18/2014
 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: 8,014 Miles
	ADDITIONAL INFO: 2008	

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

COMMENTS
 JOHN: The one concern we have with this sample is sodium. It jumped up a bit, and that might show a little coolant contamination. It's possible, though, that this is just an anomaly and it won't give you any trouble next time, so let's just see if this sodium level continues next time before we call it a certain problem. Potassium still read low (potassium is another element in coolant), and wear metals are fine, so there's a good possibility that this sodium is harmless. No other problems turned up. Watch for coolant loss, just in case, and check back next time to monitor.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	8,014	UNIT / LOCATION AVERAGES	6,709	7,555	7,822	8,062	7,455	UNIVERSAL AVERAGES
	MI/HR on Unit	94,213		86,199	79,490	71,935	64,113	56,051	
	Sample Date	08/03/14		05/31/14	08/12/13	04/20/13	08/29/12	04/06/12	
	Make Up Oil Added	0 qts		0 qts	0 qts	0 qts	0 qts		
ALUMINUM	3	4	4	5	5	6	5	3	
CHROMIUM	1	1	1	1	1	1	1	1	
IRON	15	32	18	21	20	16	16	24	
COPPER	1	7	3	4	5	3	3	7	
LEAD	1	2	2	2	2	2	2	1	
TIN	0	1	0	0	0	0	0	1	
MOLYBDENUM	49	44	45	60	52	43	45	34	
NICKEL	0	0	0	0	0	0	0	0	
MANGANESE	0	1	0	0	0	0	0	0	
SILVER	1	1	2	2	3	1	1	0	
TITANIUM	26	15	24	31	30	27	24	2	
POTASSIUM	5	8	7	9	6	13	9	7	
BORON	2	3	2	2	6	2	1	44	
SILICON	2	7	3	3	3	3	3	5	
SODIUM	17	8	8	11	6	6	6	6	
CALCIUM	1332	1185	1265	1677	1421	1323	1274	1618	
MAGNESIUM	1145	1012	1126	1473	1211	1123	1044	593	
PHOSPHORUS	1165	1108	1170	1544	1318	1109	1131	1026	
ZINC	1413	1324	1391	1839	1543	1309	1316	1204	
BARIUM	0	2	0	0	0	0	0	0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	71.4	69-78	69.0	69.3	70.2	68.4	69.9
	cSt Viscosity @ 100°C	13.31	12.7-15.3	12.68	12.78	13.00	12.52	12.94
	Flashpoint in °F	455	>390	435	440	455	450	440
	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 %	0.1	<0.6	0.1	0.3	0.3	0.3	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