



# OIL REPORT

LAB NUMBER: H91722      UNIT ID: 08 CUMMINS  
 REPORT DATE: 11/15/2016      CLIENT ID:  
 CODE: 20/32      PAYMENT:

<b>UNIT</b>	MAKE/MODEL: Cummins ISB 6.7L (Pickup)	OIL TYPE & GRADE: Valvoline Premium Blue 15W/40
	FUEL TYPE: Diesel	OIL USE INTERVAL: 7,577 Miles
	ADDITIONAL INFO: 2008	

<b>CLIENT</b>	CARBONITECUMMINS.COM	PHONE:
		FAX:
		ALT PHONE:
		EMAIL:

**COMMENTS** JOHN: Well, we wouldn't go jumping straight into 15,000-mile intervals from here, but we do think it'd be safe for you to work in that general direction. We suggest about 9,000 miles for the next sample, and if that one looks good, maybe 2,000-3,000 more miles for the next sample, and so on. Chrome does look better, but it's not perfect yet, so there's still some ring wear going on here, and silicon is higher, possibly showing some dirt in the oil. Check the air filter for leaks or issues. The viscosity was a little thin, but that's harmless. A pretty good sample overall!

<b>ELEMENTS IN PARTS PER MILLION</b>	MI/HR on Oil	7,577	<b>UNIT / LOCATION AVERAGES</b>	403	1,326	7,557	7,358	8,014	<b>UNIVERSAL AVERAGES</b>
	MI/HR on Unit	118,434		110,857	110,454	109,128	101,571	94,213	
	Sample Date	10/23/2016		3/19/2016	2/27/2016	12/12/2015	5/23/2015	8/3/2014	
	Make Up Oil Added	0 qts		0 qts	0 qts	0 qts	0 qts	0 qts	
ALUMINUM	3	4	3	2	3	3	3	3	3
CHROMIUM	3	1	6	1	1	1	1	1	1
IRON	29	29	24	7	14	14	15	24	24
COPPER	3	6	1	1	2	3	1	7	7
LEAD	1	2	1	1	1	1	1	1	1
TIN	0	1	1	0	0	0	0	1	1
MOLYBDENUM	52	46	45	52	54	53	49	34	34
NICKEL	0	0	0	0	0	1	0	0	0
MANGANESE	1	1	1	0	0	0	0	0	0
SILVER	2	1	1	2	2	2	1	0	0
TITANIUM	30	18	30	27	28	27	26	2	2
POTASSIUM	2	8	0	8	4	10	5	8	8
BORON	2	2	4	7	1	0	2	50	50
SILICON	25	8	13	17	2	2	2	5	5
SODIUM	12	10	11	8	9	19	17	6	6
CALCIUM	1459	1226	1249	1319	1336	1331	1332	1658	1658
MAGNESIUM	1302	1056	1129	1150	1180	1162	1145	583	583
PHOSPHORUS	1195	1120	1122	1192	1162	1128	1165	1027	1027
ZINC	1557	1363	1331	1585	1438	1529	1413	1219	1219
BARIUM	0	1	0	0	0	0	0	0	0

Values Should Be\*

<b>PROPERTIES</b>	SUS Viscosity @ 210°F	68.2	69-81	74.1	68.9	73.7	68.4	71.4
	cSt Viscosity @ 100°C	12.48	12.7-16.0	14.03	12.66	13.93	12.52	13.31
	Flashpoint in °F	425	>390	410	415	420	420	455
	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 %	0.2	<0.6	0.3	0.1	0.2	0.2	0.1
	TBN							
	TAN							
	ISO Code							

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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