



OIL REPORT

LAB NUMBER: H24789
 REPORT DATE: 1/6/2016
 CODE: 20/32

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: 7,557 Miles
	ADDITIONAL INFO: 2008	

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

COMMENTS
 JOHN: Whatever caused the spike in sodium in the last two samples appears to be a thing of the past. Sodium improved nicely and we found no change in wear in this sample from the last. At 109,128 miles, your 6.7L is wearing as nicely as ever and we see no signs of trouble brewing. No harmful contaminants were found in the sample and your air and oil filters (silicon and insolubles) are working well. Your engine has been making low and steady wear patters for quite some time now and we know of no better indicator that an engine is operated and maintained well. Nice!

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	7,557	UNIT / LOCATION AVERAGES	7,358	8,014	6,709	7,555	7,822	UNIVERSAL AVERAGES
	MI/HR on Unit	109,128		101,571	94,213	86,199	79,490	71,935	
	Sample Date	12/12/2015		5/23/2015	8/3/2014	5/31/2014	8/12/2013	4/20/2013	
	Make Up Oil Added	0 qts		0 qts	0 qts	0 qts	0 qts	0 qts	
ALUMINUM	3	4	3	3	4	5	5	3	
CHROMIUM	1	1	1	1	1	1	1	1	
IRON	14	29	14	15	18	21	20	24	
COPPER	2	7	3	1	3	4	5	7	
LEAD	1	2	1	1	2	2	2	1	
TIN	0	1	0	0	0	0	0	1	
MOLYBDENUM	54	45	53	49	45	60	52	33	
NICKEL	0	0	1	0	0	0	0	0	
MANGANESE	0	1	0	0	0	0	0	0	
SILVER	2	1	2	1	2	2	3	0	
TITANIUM	28	17	27	26	24	31	30	2	
POTASSIUM	4	8	10	5	7	9	6	8	
BORON	1	2	0	2	2	2	6	48	
SILICON	2	6	2	2	3	3	3	5	
SODIUM	9	9	19	17	8	11	6	6	
CALCIUM	1336	1208	1331	1332	1265	1677	1421	1658	
MAGNESIUM	1180	1037	1162	1145	1126	1473	1211	584	
PHOSPHORUS	1162	1114	1128	1165	1170	1544	1318	1029	
ZINC	1438	1348	1529	1413	1391	1839	1543	1219	
BARIUM	0	2	0	0	0	0	0	0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	73.7	69-81	68.4	71.4	69.0	69.3	70.2
	cSt Viscosity @ 100°C	13.93	12.7-16.0	12.52	13.31	12.68	12.78	13.00
	Flashpoint in °F	420	>390	420	455	435	440	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	0.2	0.1	0.1	0.3	0.3
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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