BLACKSTONE LABORATORIES

OIL REPORT

LAB NUMBER:
REPORT DATE: 7/27/2009
CODE:

UNIT ID: 08 CUMMINS
CLIENT ID:
PAYMENT:

UNIT

MAKE/MODEL: Cummins 6.7L
FUEL TYPE: Diesel
ADDITIONAL INFO: 2008

OIL TYPE & GRADE: Valvoline Premium Blue 15W/40
OIL USE INTERVAL: 4,896 Miles

CLIENT

PHONE:
FAX:
ALT PHONE:
EMAIL:

COMMENTS

JOHN: Your new Cummins diesel appears to be breaking-in just fine at 7,481 miles. Most of the wear metals and silicon dropped as expected. Iron, from steel parts like cylinders and rotating shafts still has a little ways to go before it starts reading around average but it is well on its way to doing that. There was a trace of fuel in the oil likely from idling and not a problem. The oil's viscosity was low, reading in the SAE 30W range, which is still okay for a diesel. We suggest you try one more ~5,000-mile oil change interval and check back to see more improvements.

ELEMENTS IN PARTS PER MILLION

			UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
MI/HR on Oil	4,896		2,585						
MI/HR on Unit	7,481		2,585						
Sample Date	07/11/09		04/25/09						
Make Up Oil Added	0 qts		0 qts						
ALUMINUM	3	3	3						2
CHROMIUM	1	2	2						1
IRON	38	73	**107**						25
COPPER	6	25	**44**						9
LEAD	2	3	3						1
TIN	2	3	3						1
MOLYBDENUM	40	39	38						33
NICKEL	0	1	1						0
MANGANESE	1	4	6						1
SILVER	1	1	0						0
TITANIUM	0	0	0						0
POTASSIUM	5	9	12						6
BORON	3	4	5						58
SILICON	9	22	**34**						6
SODIUM	5	11	16						4
CALCIUM	1117	1055	993						1564
MAGNESIUM	859	846	833						465
PHOSPHORUS	1042	935	827						913
ZINC	1325	1242	1159						1117
BARIUM	2	10	18						0

PROPERTIES

		Values Should Be*					
SUS Viscosity @ 210°F	**62.9**	69-78	58.6				
cSt Viscosity @ 100°C	**11.04**	12.7-15.3	9.81				
Flashpoint in °F	390	>390	350				
Fuel %	TR	<2.0	6.5				
Antifreeze %	0.0	0.0	0.0				
Water %	0.0	<0.1	0.0				
Insolubles %	0.4	<0.8	0.2				
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

©COPYRIGHT BLACKSTONE LABORATORIES 2007

LIABILITY LIMITED TO COST OF ANALYSIS