BLACKSTONE LABORATORIES

OIL REPORT

LAB NUMBER:
REPORT DATE: 6/1/2010
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: 7,583 Miles

CLIENT

PHONE:
FAX:
ALT PHONE:
EMAIL:

COMMENTS

JOHN: The viscosity is still reading low in the oil from your 6.7L, but the flash point is still good. Until we find a low flash point, which would indicate fuel in the oil, we will not worry about the viscosity, because it's working okay for your engine. Wear levels are reading around averages, and it's nice to see iron improve a little after a slightly longer oil run. We're also glad to see potassium drop down to virtually nothing, since that can show anti-freeze contamination. Insolubles were low at 0.3%, showing good oil filtration and complete combustion. Nice report at 22,140 miles.

ELEMENTS IN PARTS PER MILLION

			UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Oil	7,583		7,076	4,896	2,585			
	MI/HR on Unit	22,140		14,557	7,481	2,585			
	Sample Date	05/23/10		01/01/10	07/11/09	04/25/09			
	Make Up Oil Added	0 qts		0 qts	0 qts	0 qts			
	ALUMINUM	2	3	5	3	3			3
	CHROMIUM	2	2	2	1	2			1
	IRON	34	54	36	38	**107**			26
	COPPER	3	15	5	6	**44**			8
	LEAD	3	2	1	2	3			1
	TIN	4	3	4	2	3			1
	MOLYBDENUM	39	38	36	40	38			37
	NICKEL	1	1	0	0	1			0
	MANGANESE	1	2	1	1	6			0
	SILVER	0	1	1	1	0			0
	TITANIUM	0	0	0	0	0			0
	POTASSIUM	1	10	**21**	5	12			7
	BORON	3	4	3	3	5			60
	SILICON	5	14	7	9	**34**			5
	SODIUM	9	9	5	5	16			6
	CALCIUM	849	966	904	1117	993			1534
	MAGNESIUM	993	841	680	859	833			486
	PHOSPHORUS	1195	979	852	1042	827			938
	ZINC	1324	1217	1059	1325	1159			1147
	BARIUM	0	5	0	2	18			0

PROPERTIES

		Values Should Be*					
SUS Viscosity @ 210°F	**59.2**	69-78	**55.2**	**62.9**	58.6		
cSt Viscosity @ 100°C	**10.00**	12.7-15.3	**8.82**	**11.04**	9.81		
Flashpoint in °F	415	>390	**385**	**390**	**350**		
Fuel %	<0.5	<2.0	0.5	TR	**6.5**		
Antifreeze %	0.0	0.0	**?**	0.0	0.0		
Water %	0.0	<0.1	0.0	0.0	0.0		
Insolubles %	0.3	<0.8	0.3	0.4	0.2		
TBN							
TAN							
ISO Code							

*** THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE**

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