



OIL REPORT

LAB NUMBER:
 REPORT DATE: 5/5/2009
 CODE:

UNIT ID: 08 CUMMINS
 CLIENT ID:
 PAYMENT:

UNIT	EQUIP. MAKE/MODEL: Cummins 6.7L	OIL TYPE & GRADE: Diesel Engine Oil
	FUEL TYPE: Diesel	OIL USE INTERVAL: 2,585 Miles
	ADDITIONAL INFO: 2008	

CLIENT	
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COMMENTS JOHN: Fuel was found at 6.5% in this sample, which may show a fuel system problem developing. No other harmful contaminants were found. Universal averages for the 6.7L are based on an oil run of ~4,300 miles. High wear and silicon are common finds in new engines, such as yours. The excess wear metals are from new parts breaking-in, while silicon is from sand-casted parts and sealers used when assembling your engine. Both should improve next time. You might consider checking back after a short oil change; if the oil level is increasing, a fuel system problem exists.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	2,585	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	2,585						
	Sample Date	04/25/09						
	Make Up Oil Added	0 qts						
ALUMINUM	3	4					3	
CHROMIUM	2	2					1	
IRON	107	60					27	
COPPER	44	18					8	
LEAD	3	2					1	
TIN	3	3					1	
MOLYBDENUM	38	38					38	
NICKEL	1	0					0	
MANGANESE	6	3					0	
SILVER	0	1					0	
TITANIUM	0	0					0	
POTASSIUM	12	13					7	
BORON	5	4					60	
SILICON	34	17					6	
SODIUM	16	9					6	
CALCIUM	993	1005					1504	
MAGNESIUM	833	791					500	
PHOSPHORUS	827	907					924	
ZINC	1159	1181					1126	
BARIUM	18	7					0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	58.6				
	cSt Viscosity @ 100°C	9.81				
	Flashpoint in °F	350	>415			
	Fuel %	6.5	<2.0			
	Antifreeze %	0.0	0.0			
	Water %	0.0	0.0			
	Insolubles %	0.2	<0.6			
	TBN					
	TAN					
	ISO Code					

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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