



# OIL REPORT

LAB NUMBER: D46741

UNIT ID: 06 CTD

REPORT DATE: 7/25/2008

CLIENT ID: 26406

CODE: 20/47

PAYMENT: CC: MC (Bulk)

<b>UNIT</b>	MAKE/MODEL: Cummins 6 BT 5.9L	OIL TYPE & GRADE: Cenpeco 15W/40
	FUEL TYPE: Diesel	OIL USE INTERVAL: 3,273 Miles
	ADDITIONAL INFO: Turbo	

<b>CLIENT</b>	TRAVIS HOENE	PHONE: (443) 250-8691
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**COMMENTS** TRAVIS: If you divide the ppm of potassium (K) by miles of oil use in this sample and your first one you will see that its rate increased slightly. That means your Cummins could have coolant getting into the oil. Iron and lead increased and that would correspond to coolant contamination. The iron is from steel parts like cylinders and the lead is from bearings. The unknown factor is that the potassium may be coming from the EGR cooler on your diesel. If that's the case, the high wear is still an issue anyway. The TBN was 6.1 this time. Try a short oil run in the ~2K-mile range.

<b>ELEMENTS IN PARTS PER MILLION</b>	MI/HR on Oil	3,273	<b>UNIT / LOCATION AVERAGES</b>	1,015	6,612	<b>UNIVERSAL AVERAGES</b>
	MI/HR on Unit	35,692		23,884	21,627	
	Sample Date	07/19/08		07/20/07	05/17/07	
	Make Up Oil Added	0 qts		0 qts	0 qts	
ALUMINUM	5	5	3	7	3	
CHROMIUM	3	2	1	1	2	
IRON	54	35	14	37	23	
COPPER	7	4	2	4	4	
LEAD	8	5	2	4	3	
TIN	3	1	0	0	1	
MOLYBDENUM	3	5	3	8	26	
NICKEL	1	0	0	0	0	
MANGANESE	1	1	0	1	0	
SILVER	0	0	0	1	0	
TITANIUM	0	0	0	0	0	
POTASSIUM	17	17	6	27	3	
BORON	3	5	3	9	83	
SILICON	10	8	6	9	7	
SODIUM	2	3	3	3	4	
CALCIUM	3201	3390	3721	3249	2836	
MAGNESIUM	412	426	399	468	231	
PHOSPHORUS	1171	1361	1233	1679	1085	
ZINC	1406	1461	1456	1520	1271	
BARIUM	113	106	107	98	1	

Values Should Be\*

<b>PROPERTIES</b>	SUS Viscosity @ 210°F	78.2	69-78	76.9	77.5
	cSt Viscosity @ 100°C	15.08	12.7-15.3	14.75	14.89
	Flashpoint in °F	440	>415	410	415
	Fuel %	<0.5	<2.0	0.5	TR
	Antifreeze %	?	0	0.0	?
	Water %	0.0	<0.1	0.0	0.0
	Insolubles %	0.4	<0.8	0.3	0.5
	TBN	6.1		13.2	9.6
	TAN				
	ISO Code				

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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