OIL REPORT

LAB NUMBER: E03366 **UNIT ID:** QUADMAN
REPORT DATE: 2/16/2010 **CLIENT ID:** 39610
CODE: 20/286 **PAYMENT:** CC: Visa

UNIT

MAKE/MODEL: Cummins 6 BT 5.9L
OIL TYPE & GRADE: Amsoil Heavy Duty 15W/40
FUEL TYPE: Diesel
OIL USE INTERVAL: 9,000 Miles
ADDITIONAL INFO: 2006 Ram 2500 - Uses B-20 & Bio-diesel fuel

CLIENT

MIKE HELWIG
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COMMENTS

MIKE: Universal averages reflect what wear usually looks like for the Cummins 5.9L after 6,800 miles of oil use. We found 15 ppm of potassium, which could be coming from anti-freeze getting into the oil. If it is anti-freeze, you have caught the problem early. Monitor the coolant level to make sure it's not dropping. We also found high iron, copper, and lead, from the bearings, and these high numbers indicate excessive wear. The TBN was 5.9, showing lots of active additive. 1.0 is low. Until wear settles down for you, drop back to an ~8,000 mile oil run and check back.

ELEMENTS IN PARTS PER MILLION

		UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
MI/HR on Oil	9,000							
MI/HR on Unit	52,000							
Sample Date	01/31/10							
Make Up Oil Added	1 qt							
ALUMINUM	5	5						3
CHROMIUM	3	3						2
IRON	**64**	64						23
COPPER	**63**	63						4
LEAD	**6**	6						2
TIN	0	0						1
MOLYBDENUM	5	5						27
NICKEL	2	2						0
MANGANESE	1	1						0
SILVER	1	1						0
TITANIUM	0	0						0
POTASSIUM	**15**	15						4
BORON	9	9						80
SILICON	11	11						7
SODIUM	4	4						4
CALCIUM	2963	2963						2738
MAGNESIUM	90	90						243
PHOSPHORUS	1020	1020						1079
ZINC	1247	1247						1270
BARIUM	0	0						1

PROPERTIES

		Values Should Be*					
SUS Viscosity @ 210°F	77.6	68-80					
cSt Viscosity @ 100°C	14.93	12.4-15.8					
Flashpoint in °F	420	>410					
Fuel %	<0.5	<2.0					
Antifreeze %	**?**	0					
Water %	0.0	<0.1					
Insolubles %	0.5	<0.8					
TBN	5.9						
TAN							
ISO Code							

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

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