OIL REPORT

LAB NUMBER: D83991 **UNIT ID:** CUMMINS
REPORT DATE: 8/7/2009 **CLIENT ID:** 36565
CODE: 20/461 **PAYMENT:** CC: AmEx (Bulk)

UNIT

MAKE/MODEL: Cummins 6 BT 5.9L
FUEL TYPE: Diesel
ADDITIONAL INFO: Ram

OIL TYPE & GRADE: 15W/40
OIL USE INTERVAL: 7,634 Miles

CLIENT

JUANITO P BONPUA
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COMMENTS

JUANITO: Universal averages (located in the far-right column) show typical wear levels for this type of engine after about 6,700 miles on the oil. This oil was in use a tad longer than that, and wear metals generally read low and were also in the proper balance (see universal averages). Iron was the only metal out of line, but at this level it's not really a concern. Heavy towing, city driving, etc, are possible sources for the slightly elevated iron. No contamination was found. The 9.7 TBN shows lots of active additive left (1.0 is the low cutoff). Try 5K miles next OCI to reduce iron.

ELEMENTS IN PARTS PER MILLION

		UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
MI/HR on Oil	7,634							
MI/HR on Unit	25,074							
Sample Date	07/22/09							
Make Up Oil Added	0 qts							
ALUMINUM	2	2						3
CHROMIUM	2	2						2
IRON	39	39						23
COPPER	4	4						4
LEAD	2	2						2
TIN	1	1						1
MOLYBDENUM	2	2						28
NICKEL	0	0						0
MANGANESE	1	1						0
SILVER	1	1						0
TITANIUM	0	0						0
POTASSIUM	3	3						3
BORON	3	3						81
SILICON	6	6						7
SODIUM	3	3						4
CALCIUM	3527	3527						2780
MAGNESIUM	9	9						234
PHOSPHORUS	1076	1076						1081
ZINC	1373	1373						1271
BARIUM	1	1						1

PROPERTIES

		Values Should Be*					
SUS Viscosity @ 210°F	78.0	69-82					
cSt Viscosity @ 100°C	15.03	12.7-16.3					
Flashpoint in °F	450	>405					
Fuel %	<0.5	<2.0					
Antifreeze %	0.0	0					
Water %	0.0	0.0					
Insolubles %	0.3	<0.7					
TBN	9.7						
TAN							
ISO Code							

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

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