

OIL REPORT

LAB NUMBER: E01377

REPORT DATE: 1/25/2010

CODE: 20/284

PAYMENT: Verbal, Mark

UNIT ID: DODGE 3500

CLIENT ID: 36769

MAKE/MODEL: Cummins 5.9L Turbo Diesel

FUEL TYPE: Diesel

ADDITIONAL INFO: 2004.5 OIL TYPE & GRADE: Shell Rotella T 15W/40

OIL USE INTERVAL: 4,772 Miles

MARK MORTON

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CLIENT

MARK: We are not sure what changed between the last sample and this one, but you're sure getting a lot more bearing wear than you were last summer. Universal averages show typical wear levels for this type of engine after about 5,700 miles on the oil. You ran this oil just under 5,000 miles, so you're not running your oil too long. And we are not seeing any contamination in the oil that would be causing the wear. The viscosity was high; you must be using Lucas. We are concerned about the bearing wear. It's cautionary. Try 2,500 miles next time to monitor.

	141/15 O''	4 770		0.404		
	MI/HR on Oil	4,772	UNIT /	2,484		
	MI/HR on Unit		LOCATION AVERAGES	69,635		UNIVERSAL
	Sample Date	01/05/10		07/15/09		AVERAGES
	Make Up Oil Added	0 qts		0 qts		
N	ALUMINUM	3	3	2		3
LION	CHROMIUM	4	3	1		2
MIL	IRON	64	44	24		20
2	COPPER	87	45	2		3
R	LEAD	23	13	2		2
Б	TIN	2	1	0		1
ည	MOLYBDENUM	0	1	1		49
R	NICKEL	1	1	0		0
PΑ	MANGANESE	2	1	0		0
Z	SILVER	3	3	2		0
	TITANIUM	0	0	0		0
TS	POTASSIUM	9	8	6		3
N N	BORON	15	20	25		89
EΜ	SILICON	7	5	3		6
H	SODIUM	8	5	2		4
ш	CALCIUM	2216	2246	2275		2691
	MAGNESIUM	11	9	7		273
	PHOSPHORUS	1005	985	964		1026
	ZINC	1159	1160	1161		1219
	BARIUM	0	0	0		1

Values Should Be*

SUS Viscosity @ 210°F	83.6	69-80	81.9		
cSt Viscosity @ 100°C	16.42	12.7-15.8	15.99		
Flashpoint in °F	430	>410	410		
Fuel %	<0.5	<2.0	TR		
Antifreeze %	0.0	0	0.0		
Water %	0.0	0.0	0.0		
Insolubles %	0.4	<0.6	0.3		
TBN			5.8		
TAN					
ISO Code					

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE