

OIL REPORT LAB NUMBER: E54132 REPORT DATE: 5/3/2011 CODE: 20/501 UNIT ID: DODGE 3500 CLIENT ID:

PAYMENT: CC: MC

UNIT

MAKE/MODEL: Cummins 6 BT 5.9L FUEL TYPE: Diesel ADDITIONAL INFO: OIL TYPE & GRADE: OIL USE INTERVAL: Amsoil 15W/40 Diesel & Marine 12,886 Miles

CLIENT

COMMENTS

FAX: ALT PHONE: EMAIL:

PHONE:

MICHAEL: It's possible the exhaust brake you added at 77,265 miles is to blame for the extra copper in this sample if it shares oil with the rest of your engine. However, because copper was on the rise last time, it's still something to keep an eye on, since it could also show a problem at a brass/bronze part like a bushing or an oil cooler. Lead also increased this sample, showing more bearing wear, but it could also be from a temporary particle streak, and in that case, it will look better next time. All other wear is fine, and the TBN read strong. Check back.

	MI/HR on Oil	12,886		12,820	9,400	8,092	7,967	7,861		
ER MILLION	MI/HR on Unit	88,706		75,820	63,000	53,600	45,508	37,541	UNIVERSAL	
	Sample Date	04/23/11		06/18/10	05/01/09	04/29/08	05/19/07	10/06/06	AVERAGES	
	Make Up Oil Added	0 qts		0 qts						
						-	-			
	ALUMINUM	4	3	3	2	2	3	4	3	
	CHROMIUM	1	1	1	1	1	1	1	2	
	IRON	25	20	26	18	17	15	17	23	
	COPPER	247	15	73	8	8	6	9	4	
	LEAD	7	2	3	3	2	1	2	2	
д_	TIN	0	1	5	0	2	0	0	1	
RTS	MOLYBDENUM	2	32	0	2	2	2	6	29	
IN PA	NICKEL	1	0	1	0	1	0	0	0	
	MANGANESE	0	0	0	0	0	0	0	0	
	SILVER	3	2	3	2	3	2	2	0	
	TITANIUM	1	0	0	0	0	0	0	0	
Ê	POTASSIUM	8	11	3	5	4	7	12	4	
Ш	BORON	2	16	2	2	2	2	0	80	
N	SILICON	3	4	4	3	3	3	3	6	
ELEMENTS	SODIUM	1	3	5	3	2	4	2	4	
	CALCIUM	3275	3716	3876	3755	3657	3352	4213	2640	
	MAGNESIUM	11	9	10	9	9	9	11	267	
	PHOSPHORUS	1019	1236	1237	1171	1133	1490	1179	1079	
	ZINC	1263	1448	1546	1431	1376	1449	1470	1271	
	BARIUM	0	0	0	0	0	0	0	1	
	Values									

## Values Should Be\*

			Should De					
	SUS Viscosity @ 210°F	72.3	69-78	74.7	70.7	71.9	70.9	74.7
PROPERTIES	cSt Viscosity @ 100°C	13.55	12.7-15.3	14.19	13.14	13.45	13.18	14.17
	Flashpoint in °F	450	>415	455	450	460	445	455
	Fuel %	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5
	Antifreeze %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water %	0.0	<0.1	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.2	<0.8	0.3	0.3	0.3	0.2	0.2
	TBN	7.7		7.3	8.2	7.7		
	TAN							
	ISO Code							

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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