



OIL REPORT

LAB NUMBER: D41684

UNIT ID: 1

REPORT DATE: 6/4/2008

CLIENT ID: 24883

CODE: 83/286

PAYMENT: CC: MC

UNIT	MAKE/MODEL: Navistar 7.3L Power Stroke	OIL TYPE & GRADE: Chevron Delo 400 LE 15W/40
	FUEL TYPE: Diesel	OIL USE INTERVAL: 7,391 Miles
	ADDITIONAL INFO: 1999 Superduty. Replaced turbo at 169,520 miles.	

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COMMENTS	RON: They've reformulated this Delo oil, and you can see the variances in moly, boron, and calcium. Mostly you've got more boron than before. Boron is a detergent/dispersant additive. This oil is working well for you--metals are actually lower than before and you're run this oil the longest interval yet. The TBN is still strong at 5.7, so you've got lots of room to run this oil more miles than this. The oil was in good shape physically, containing no moisture, fuel, or coolant. Try 8500 miles next. If wear still looks good at that point, we'll suggest a longer interval next time.
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ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	7,391	UNIT / LOCATION AVERAGES	6,572	5,988	4,697	3,000	UNIVERSAL AVERAGES
	MI/HR on Unit	184,208		176,817	169,520	163,532	158,835	
	Sample Date	05/21/08		12/15/07	06/23/07	01/20/07	12/22/06	
	Make Up Oil Added	3 qts		2 qts	0 qts	0 qts	0 qts	
	ALUMINUM	4	8	5	29	2	2	2
	CHROMIUM	1	2	1	6	0	1	1
	IRON	15	24	17	59	15	13	17
	COPPER	1	3	2	10	3	1	4
	LEAD	5	7	5	13	5	6	4
	TIN	0	0	0	1	1	0	1
	MOLYBDENUM	146	199	227	220	206	194	22
	NICKEL	1	1	1	3	1	0	1
	MANGANESE	0	0	0	1	0	0	0
	SILVER	0	0	0	0	0	0	0
	TITANIUM	0	0	0	0	0	0	0
	POTASSIUM	10	4	2	3	3	3	1
	BORON	435	185	131	106	156	98	83
	SILICON	8	10	9	16	7	9	9
	SODIUM	5	4	3	4	4	5	4
	CALCIUM	2224	3012	3295	3220	3089	3233	3169
	MAGNESIUM	379	86	18	14	8	12	78
	PHOSPHORUS	1258	1201	1220	1234	1109	1185	1119
	ZINC	1557	1431	1538	1404	1287	1370	1292
	BARIUM	0	0	0	0	0	0	1

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	72.8	69-78	71.2	73.6	72.7	71.1
	cSt Viscosity @ 100°C	13.68	12.7-15.3	13.27	13.89	13.65	13.23
	Flashpoint in °F	420	>415	425	405	420	410
	Fuel %	<0.5	<2.0	<0.5	TR	<0.5	<0.5
	Antifreeze %	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
	Insolubles %	0.3	<0.8	0.3	0.2	0.2	0.3
	TBN	5.7		9.2	8.2	10.8	12.0
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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