



# OIL REPORT

LAB NUMBER: D34825      UNIT ID: 06 F350  
 REPORT DATE: 3/27/2008      CLIENT ID: 25789  
 CODE: 20/12      PAYMENT: CC: Visa (Bulk)

<b>UNIT</b>	MAKE/MODEL: Navistar 6.0L Power Stroke	OIL TYPE & GRADE: Shell Rotella T 5W/40 (Syn)
	FUEL TYPE: Diesel	OIL USE INTERVAL: 10,000 Miles
	ADDITIONAL INFO:	

<b>CLIENT</b>	SCOT BAIRD	PHONE:
	C&J SERVICES INC	FAX:
	210 ISBELL	ALT PHONE:
	HOWELL, MI 48843-2029	EMAIL: scotbaird@comcast.net

**COMMENTS** SCOT: You ran your oil roughly twice as long as the universal average in your 6.0L Power Stroke, and your wear metals are at or below the universal averages, except for iron. You have had this higher iron for several samples, so it doesn't appear to be causing a problem. Only a trace of fuel was found, but that is an improvement over earlier samples, so that looks better. If you can live with the iron (and it appears you can), then keep the same oil use interval. Good job on the fuel improvement. The viscosity was low again, but that isn't really an unusual find for this engine.

<b>ELEMENTS IN PARTS PER MILLION</b>	MI/HR on Oil	10,000	<b>UNIT / LOCATION AVERAGES</b>	10,000		12,500	7,400	5,000	<b>UNIVERSAL AVERAGES</b>
	MI/HR on Unit	67,000		56,500		45,500		33,000	
	Sample Date	03/21/08		12/12/07	08/31/07	08/23/07	07/11/07	04/30/07	
	Make Up Oil Added	0 qts		0 qts		2 qts	0 qts	0 qts	
ALUMINUM	4	3	3	4	4	3	2	3	
CHROMIUM	2	2	3	3	2	1	1	1	
IRON	<b>53</b>	<b>39</b>	<b>48</b>	<b>52</b>	<b>46</b>	31	17	22	
COPPER	3	3	3	5	4	3	2	3	
LEAD	4	5	5	<b>7</b>	6	3	3	3	
TIN	1	1	1	3	2	1	0	1	
MOLYBDENUM	13	11	7	18	18	4	6	32	
NICKEL	1	1	1	1	1	0	0	0	
MANGANESE	1	0	0	1	1	0	0	0	
SILVER	0	0	0	0	0	0	0	0	
TITANIUM	0	0	0	0	0	0	0	0	
POTASSIUM	4	3	6	6	3	3	0	4	
BORON	6	9	17	6	8	6	17	35	
SILICON	4	7	5	9	7	6	5	10	
SODIUM	2	2	3	3	4	3	1	3	
CALCIUM	3450	2996	2469	3022	3338	3263	2399	3074	
MAGNESIUM	10	9	6	12	9	9	9	86	
PHOSPHORUS	1315	1163	1062	1194	1201	1271	1037	1121	
ZINC	1462	1333	1218	1211	1448	1510	1207	1291	
BARIUM	0	0	0	0	0	0	0	2	

Values Should Be\*

<b>PROPERTIES</b>	SUS Viscosity @ 210°F	<b>60.6</b>	66-78	68.6	<b>61.3</b>	61.1	62.8	<b>65.5</b>
	cSt Viscosity @ 100°C	<b>10.39</b>	11.9-15.3	12.59	<b>10.59</b>	10.52	11.00	<b>11.76</b>
	Flashpoint in °F	<b>410</b>	>410	<b>390</b>	<b>390</b>	<b>370</b>	420	<b>405</b>
	Fuel %	TR	<2.0	<b>2.5</b>	<b>2.5</b>	<b>4.5</b>	<0.5	1.0
	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	0.2	0.3	0.3	0.3	0.3
	TBN							
	TAN							
	ISO Code							

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com