BLACKSTONE LABORATORIES

P.O. NUMBER Prepaid
CODE: 22/13731/16

UNIT NUMBER 03 F350
REPORT DATE: 2/2/04
LAB NUMBER: C11102

OIL REPORT

CLIENT

CONTACT:
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UNIT

EQUIPMENT MAKE: Navistar
EQUIPMENT MODEL: 6.0L Power Stroke
FUEL TYPE: Diesel
ADDITIONAL INFO:

OIL USE INTERVAL: 5,014 Miles
OIL TYPE & GRADE: Motorcraft 15W/40
MAKE-UP OIL ADDED: 0 qts

COMMENTS

HARRY: You can see your engine maturing in wear as it passes the 10,000-mile mark. The potassium and sodium, which were factory leftovers, are washing out, just like they're supposed to. Copper, iron, and lead are all dropping nicely. Insolubles (oil oxidation due to heat, use and blow-by) were low at 0.4%, showing good oil filtration and complete combustion. Silicon, which is from sand-casted parts and sealers, is still coming down and should improve again in the next sample. No moisture, fuel, or coolant was present in the oil. Looks like a nice engine!

ELEMENTS IN PARTS PER MILLION

MI/HR ON OIL	5,014	UNIT / LOCATION AVERAGES	5,351						UNI VERSAL AVERAGES
MI/HR ON UNIT	10,365		5,351						
SAMPLE DATE	01/26/04		10/15/03						
ALUMINUM	3	3	3						2
CHROMIUM	1	2	2						1
IRON	42	66	**89**						24
COPPER	10	15	**20**						5
LEAD	3	6	**8**						3
TIN	2	3	3						1
MOLYBDENUM	6	5	4						6
NICKEL	0	1	1						0
MANGANESE	1	3	4						1
SILVER	0	1	1						0
TITANIUM	0	0	0						0
POTASSIUM	13	25	36						7
BORON	172	87	2						107
SILICON	44	96	**148**						26
SODIUM	4	7	9						3
CALCIUM	2727	2699	2670						3068
MAGNESIUM	173	95	16						122
PHOSPHORUS	902	979	1055						1070
ZINC	986	1084	1182						1220
BARIUM	12	7	1						3

PROPERTIES

TEST	cST VISCOSITY @ 40 °C	SUS VISCOSITY @ 100 °F	VISCOSITY INDEX	cST VISCOSITY @ 100 °C	SUS VISCOSITY @ 210 °F	FLASHPOINT IN °F	FUEL %	ANTIFREEZE %	WATER %	INSOLUBLES %
VALUES SHOULD BE					65-75	>410	<2.0	0	<0.1	<0.7
TESTED VALUES WERE					64.0	410	<0.5	0.0	0.0	0.4

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LIABILITY LIMITED TO COST OF SAMPLE ANALYSIS

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