BLACKSTONE LABORATORIES

P.O. NUMBER CC: Visa
CODE: 22/17684/16

UNIT NUMBER A320-250
REPORT DATE: 4/7/05
LAB NUMBER: C41778

OIL REPORT

CLIENT

CONTACT:
NAME: MICHAEL LOFTIS
ADDRESS: 1240 OTIS ST. APT. 19
MISSOULA, MT 59802

PHONE: (208) 431-6652
FAX:
E-MAIL: mloftis@wgops.com

UNIT

EQUIPMENT MAKE: IH
EQUIPMENT MODEL: 6.9L
FUEL TYPE: Diesel
ADDITIONAL INFO:

OIL USE INTERVAL: 4,440 Miles
OIL TYPE & GRADE: Chevron Delo 400 15W/40
MAKE-UP OIL ADDED: 6 qts

COMMENTS

MICHAEL: The only changes found from past samples from your 6.9L IH engine is the higher iron wear, which was expected since you ran this oil longer than the last. The viscosity and soot levels were both mildly high, though everything else looks okay so we are not going to worry too much about them at this point. Bearings look great. The oil was in good shape physically, containing no moisture, fuel, or coolant. The air and oil filters are working well too. Stay at ~4500 miles oil use for the next sample.

ELEMENTS IN PARTS PER MILLION

MI/HR ON OIL	4,440	UNIT / LOCATION AVERAGES	3,000					UNIVERSAL AVERAGES
MI/HR ON UNIT	188,445		184,000					
SAMPLE DATE	04/04/05		12/19/04					
ALUMINUM	6	5	4					6
CHROMIUM	2	2	1					4
IRON	40	35	29					65
COPPER	2	2	2					7
LEAD	5	4	3					9
TIN	2	1	0					1
MOLYBDENUM	231	191	151					14
NICKEL	1	1	0					1
MANGANESE	1	2	2					1
SILVER	0	0	0					0
TITANIUM	0	0	0					0
POTASSIUM	5	5	4					1
BORON	112	107	102					153
SILICON	7	6	5					9
SODIUM	3	4	5					19
CALCIUM	3701	3800	3899					2072
MAGNESIUM	15	11	7					410
PHOSPHORUS	1253	1183	1112					1143
ZINC	1494	1418	1341					1240
BARIUM	0	0	0					0

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					69-82	>405	<2.0	0	<0.1	<0.7
TESTED VALUES WERE					83.1	435	<0.5	0.0	0.0	0.5

LIABILITY LIMITED TO COST OF SAMPLE ANALYSIS

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