



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

UNIT NUMBER A320-250
 REPORT DATE: 1/14/05
 LAB NUMBER: C35732

OIL REPORT

CLIENT	CONTACT:		PHONE: (208) 431-6652
	NAME:	MICHAEL LOFTIS	FAX:
	ADDRESS:	1240 OTIS ST. APT. 19 MISSOULA, MT 59802	E-MAIL: mloftis@wgops.com

UNIT	EQUIPMENT MAKE:	IH	OIL USE INTERVAL:	3,000 Miles
	EQUIPMENT MODEL:	6.9L	OIL TYPE & GRADE:	15W/40
	FUEL TYPE:	Diesel	MAKE-UP OIL ADDED:	8 qts
	ADDITIONAL INFO:			

COMMENTS MICHAEL: Universal averages show typical wear metals for an oil from this type engine after a routine oil run of about 3,500 miles. Your oil was in use approximately 3,000 miles, and all wear was low, easily beating the average levels. The balance of metals looked good and we suspect mechanical parts inside are normal. Air and oil filtration were okay while this oil was in use. We found no diesel fuel, moisture or coolant in the sample. Insolubles were low at 0.5%, showing good oil filtration. It looks like you bought a good one. Try running 4,500 miles next sample.

ELEMENTS IN PARTS PER MILLION	MI/HR ON OIL	3,000	UNIT / LOCATION AVERAGES						UNI VERSAL AVERAGES
	MI/HR ON UNIT	184,000							
	SAMPLE DATE	12/19/04							
ALUMINUM	4	4						7	
CHROMIUM	1	1						5	
IRON	29	29						71	
COPPER	2	2						9	
LEAD	3	3						9	
TIN	0	0						1	
MOLYBDENUM	151	151						14	
NICKEL	0	0						1	
MANGANESE	2	2						1	
SILVER	0	0						0	
TITANIUM	0	0						0	
POTASSIUM	4	4						1	
BORON	102	102						148	
SILICON	5	5						10	
SODIUM	5	5						21	
CALCIUM	3899	3899						1984	
MAGNESIUM	7	7						446	
PHOSPHORUS	1112	1112						1140	
ZINC	1341	1341						1239	
BARIUM	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	0.0	<0.8
	TESTED VALUES WERE					81.0	435	<0.5	0.0	0.0	0.5