



P.O. NUMBER CC: Visa (Bulk)
 CODE: 63/19190/12

UNIT NUMBER 23345
 REPORT DATE: 7/15/05
 LAB NUMBER: C49980

OIL REPORT

CLIENT	CONTACT: DEBORAH WALKER HARLEY	PHONE: (208) 467-3726
	NAME: WE FILTER IT! INC.	FAX:
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	NAMPA, ID 83686	

UNIT	EQUIPMENT MAKE: Cat	OIL USE INTERVAL: 85,000 Miles
	EQUIPMENT MODEL: 3406E	OIL TYPE & GRADE: Mystic JT8 15W/40
	FUEL TYPE: Diesel	MAKE-UP OIL ADDED: 4 qts
	ADDITIONAL INFO:	

COMMENTS DEBORAH: Does this oil really have 85,000 miles on it? If so, we think this Cat engine is doing quite well. The universal averages column shows typical wear from this type of engine after 16,500 miles on the oil. Iron is the one element in the list that will increase the longer you run the oil, so 71 ppm iron would not be unusual for an oil run 85K miles. Other wear looks fine and we don't think this engine shows any problems at this point. Insolubles were quite low, showing great oil filtration. The viscosity read like a 50W oil, due to heat from the long oil change.

ELEMENTS IN PARTS PER MILLION	MI/HR ON OIL	85,000	UNIT / LOCATION AVERAGES							UNIVERSAL AVERAGES
	MI/HR ON UNIT									
	SAMPLE DATE	07/06/05								
ALUMINUM	2	2								2
CHROMIUM	1	1								0
IRON	71	71								15
COPPER	2	2								4
LEAD	1	1								1
TIN	2	2								1
MOLYBDENUM	107	107								9
NICKEL	0	0								0
MANGANESE	0	0								0
SILVER	0	0								0
TITANIUM	0	0								0
POTASSIUM	1	1								1
BORON	43	43								120
SILICON	3	3								4
SODIUM	0	0								4
CALCIUM	3849	3849								3062
MAGNESIUM	44	44								96
PHOSPHORUS	1273	1273								1062
ZINC	1724	1724								1244
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					71-82	>420	<1.0	0	0.0	<0.6
	TESTED VALUES WERE					90.2	435	<0.5	0.0	0.0	0.2