



RPM Laboratory

Fluid Analysis Report

RPM Laboratory

Unit Number: Green Sample Report
 Unit Make & Model: Eaton
 Unit Serial Number: SMB12345
 Component Tested - ID: Hydraulic System
 Date: 9/30/2008

Distr. / Sales Rep: House
 Work Order Number:
 Secondary Customer: ABC Cookie
 Reference Oil Name: JAX FGH AW - ISO 46
 Reference Oil Visc: ISO 46
 Lab Test #: 180930010

111130
 Mr. Troy Paquette
 RPM Laboratory
 W134N5373 Campbell Dr.
 Menomonee Falls, WI 53051
 USA

See Comments

JAX RPM Laboratory comments:
 Oil condition appears normal.
 Continue sampling.
 Thank you for choosing JAX RPM Laboratory.

Customer comments:

ELEMENTAL ANALYSIS BY DCP, PPM

Sample Date	Lab Test #	Wear Metals								Contaminants		Additives							
		Iron	Lead	Copper	Chromium	Aluminum	Nickel	Silver	Tin	Silicon	Sodium	Zinc	Calcium	Magnesium	Molybdenum	Phosphorus	Boron	Barium	Titanium
Reference Oil																			
9/29/2008	180930010	3	1	5	0	0	0	0	0	8	4	3	3	0	0	858	0	0	0

UNIT TIME & FLUID ANALYSIS

Sample Date	Lab Test #	Miles/Hrs on Unit	Miles/Hrs on Lube	Add Oil Gallons	T.A.N.	T.B.N.	Visc. @ 40°C, cSt	Visc. @ 100°C, cSt	Approx. SAE / ISO	Other Tests
Reference Oil									ISO 46	
9/29/2008	180930010	1,000	500		0.45		46.6		ISO 46	

CONTAMINANTS

Sample Date	Lab Test #	Oxidation (Abs)	Nitration (Abs)	FTIR Analysis	Water Content	Anti-freeze	Fuel Dilution	% Solids	% Soot	ISO Particle Count
9/29/2008	180930010	0.261			Neg			<0.1		



RPM Laboratory
Fluid Analysis Report

RPM Laboratory

Unit Number: Yellow Sample Report
 Unit Make & Model: Eaton
 Unit Serial Number: SMB96321
 Component Tested - ID: Hydraulic System
 Date: 9/30/2008

Distr. / Sales Rep: House
 Work Order Number:
 Secondary Customer: ABC Cookie
 Reference Oil Name: JAX FGH AW - ISO 46
 Reference Oil Visc: ISO 46
 Lab Test #: 180930011

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Observe Trend(s)

JAX RPM Laboratory comments:
 Iron is slightly high.
 Food-grade oils should not contain zinc.
 Zinc levels are slightly high.
 TAN is slightly high.
 Check for source(s) of contamination.
 Continue sampling to monitor.
 Thank you for choosing JAX RPM Laboratory.

Customer comments:

**ELEMENTAL ANALYSIS
 BY DCP, PPM**

Sample Date	Lab Test #	Wear Metals								Contaminants		Additives							
		Iron	Lead	Copper	Chromium	Aluminum	Nickel	Silver	Tin	Silicon	Sodium	Zinc	Calcium	Magnesium	Molybdenum	Phosphorus	Boron	Barium	Titanium
Reference Oil																			
9/29/2008	180930011	15	4	4	1	0	0	0	0	9	8	35	0	0	0	853	0	0	0

**UNIT TIME &
 FLUID ANALYSIS**

Sample Date	Lab Test #	Miles/Hrs on Unit	Miles/Hrs on Lube	Add Oil Gallons	T.A.N.	T.B.N.	Visc. @ 40°C, cSt	Visc. @ 100°C, cSt	Approx. SAE / ISO	Other Tests
Reference Oil									ISO 46	
9/29/2008	180930011	1,000	500		2.14		45.9		ISO 46	

CONTAMINANTS

Sample Date	Lab Test #	Oxidation (Abs)	Nitration (Abs)	FTIR Analysis	Water Content	Anti-freeze	Fuel Dilution	% Solids	% Soot	ISO Particle Count
9/29/2008	180930011	0.669			Neg			0.3		



RPM Laboratory
Fluid Analysis Report

RPM Laboratory

Distr. / Sales Rep: House
 Work Order Number:
 Secondary Customer: ABC Cookie
 Reference Oil Name: JAX FGH AW - ISO 46
 Reference Oil Visc: ISO 46
 Lab Test #: 180930012

Unit Number: Red Sample Report
 Unit Make & Model: Eaton
 Unit Serial Number: SMB74123
 Component Tested - ID: Hydraulic System
 Date: 9/30/2008

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Take Immediate Action

JAX RPM Laboratory comments:
 Iron and copper are high.
 Food-grade oils should not contain zinc.
 Zinc levels are high.
 Oxidation levels are high.
 TAN is high.
 Water is present in sample.
 Viscosity is above the range for an ISO 46
 Change oil and check for source(s) of contamination.
 Continue sampling to monitor.
 Thank you for choosing JAX RPM Laboratory.
Customer comments:

**ELEMENTAL ANALYSIS
 BY DCP, PPM**

Sample Date	Lab Test #	Wear Metals								Contaminants		Additives							
		Iron	Lead	Copper	Chromium	Aluminum	Nickel	Silver	Tin	Silicon	Sodium	Zinc	Calcium	Magnesium	Molybdenum	Phosphorus	Boron	Barium	Titanium
Reference Oil																			
9/29/2008	180930012	25	3	29	0	0	0	0	0	7	0	144	0	0	0	878	0	0	0

**UNIT TIME &
 FLUID ANALYSIS**

Sample Date	Lab Test #	Miles/Hrs on Unit	Miles/Hrs on Lube	Add Oil Gallons	T.A.N.	T.B.N.	Visc. @ 40°C, cSt	Visc. @ 100°C, cSt	Approx. SAE / ISO	Other Tests
Reference Oil									ISO 46	
9/29/2008	180930012	1,000	500		4.86		58.3		>ISO 46	

CONTAMINANTS

Sample Date	Lab Test #	Oxidation (Abs)	Nitration (Abs)	FTIR Analysis	Water Content	Anti-freeze	Fuel Dilution	% Solids	% Soot	ISO Particle Count
9/29/2008	180930012	1.220			Pos			0.8		