

Anyone can put fluid in a bottle . . .

it takes a trained professional to get the money out.



Practical Oil Analysis & Cooling System Maintenance

TRAINING

Nashville, TN	March 6 March 7-8	Cooling System Oil Analysis
Houston, TX	April 17 April 18-19	Cooling System Oil Analysis
Philadelphia, PA	June 12 June 13-14	Cooling System Oil Analysis
Indianapolis, IN	July 10 July 11-12	Cooling System Oil Analysis
Atlanta, GA	August 14 August 15-16	Cooling System Oil Analysis
Portland, OR	September 18 September 19-20	Cooling System Oil Analysis
Salt Lake City, UT	October 9 October 10-11	Cooling System Oil Analysis

POLARIS Laboratories
Lubricant Analysis Report
877-808-3750

Account Information
Account Number: 000000-0000-0000
Company Name: ABC COMPANY
Contact: JOHN SMITH
Address: 1234 MAIN STREET
ANYTOWN, US 11111 US

Component Information
Component ID: F872 B ENGINE
Serial #: FP SPM2000 TM RHINO T QSK50
Component Type: DIESEL ENGINE
Manufacturer: CUMMINS
Model: QSK50
Application: GAS-OIL FIELD
Sump Capacity: 55

Sample Information
Tracking Number: 00000A0000
Lab Number: H-602325
Lab Location: Houston
Data Analyst: DRH
Sampled: 30-Dec-2011
Submitted: 03-Jan-2012
Received: 05-Jan-2012
Completed: 10-Jan-2012

Filter Information
Filter Type: FULLFLOW
Micron Rating: 15

Miscellaneous Information
SO#:

Product Information
Product Manufacturer: ROYAL PURPLE LUBRICANTS
Product Name: MOTOR OIL
Viscosity Grade: SAE 15W40

Overall report severity based on comments:
0 NORMAL 1 ABNORMAL 2 CRITICAL 3 4

SUGGEST INSPECTING this unit for excessive bearing wear; Suggest inspecting cooling system (head gasket, heads, seals etc.) for leaks. Coolant indicators (Sodium, Potassium) are at a SEVERE LEVEL; Check for source of FUEL LEAK (injectors, BEARINGS, IR (OXIDATION/NITRATION) RESULTS may be skewed due to excess water; Flagged additive levels are different than what should be present for the lubricant that is identified for this unit. (This does not imply that the lubricant does not meet proper API, SAE, or ISO classifications.); Unit hours/miles/kilometers not provided for this sample; Resample at half interval;

Wear Metals (ppm)										Contaminant Metals (ppm)			Multi-Source Metals (ppm)					Additive Metals (ppm)				
Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
0	0	3	3	1	0	0	0	0	0	11	11	9	0	95	0	0	426	477	2037	0	1271	1608
0	0	2	3	3	0	0	0	0	0	12	9	7	0	91	0	0	514	469	1770	2	1217	1451
0	0	2	5	4	1	0	0	0	0	7	4	0	92	0	0	0	495	427	1661	2	1126	1373
0	0	2	2	2	1	0	0	0	0	6	4	3	0	91	1	0	545	447	1810	0	1227	1474
0	0	6	120	6	1	0	0	0	7	5	4	0	91	0	0	0	536	447	1631	2	1174	1485
0	0	2	17	2	0	0	0	0	27	13	4	0	94	0	0	0	478	429	1659	2	1217	1443
0	1	2	2	11	0	0	0	0	7	3	2	0	91	1	0	0	503	405	1622	0	1136	1437
0	0	0	75	77	0	0	0	0	6	4	3	0	96	0	0	0	478	429	1659	2	1136	1437
0	0	1	23	79	0	0	0	0	6	297	10	0	82	0	0	0	69	205	1611	0	679	1332
Sample Information										Contaminants					Fluid Properties							
Date Received	Lube Time	Unit Time	Lube Change	Lube Added	Filter Change	Fuel Dilution	Soot	Water	Viscosity 40°C	Viscosity 100°C	Acid Number	Base Number	Oxidation	Nitration								
12-Mar-2010	Unk	Unk	Unk	Unk	Unk	<1	% Vol	% Vol	cSt	cSt	mg	mg										
12-Mar-2010	Unk	Unk	Unk	Unk	Unk	<1	Estimate	0.3 - FTIR														
8-Mar-2010	Unk	Unk	Unk	Unk	Unk	<1																

Stop reacting to individual reports and start managing a more effective program today!



Register today at www.polarislabs.com/training
877-808-3750 Ext. 218



POLARIS Laboratories'® 2012 Public Training Dates

How to Register



Yes! I want to attend the POLARIS Laboratories® fluid analysis training.

1. Contact Information

Name _____
Company _____
Address _____
City _____ State _____ Zip _____
Phone _____ Fax _____
Email _____

2. Class Options

Locations	Oil Analysis Training	Cooling System Training
Nashville, TN	<input type="checkbox"/> March 7 & 8, 2012	<input type="checkbox"/> March 6, 2012
Houston, TX	<input type="checkbox"/> April 18 & 19, 2012	<input type="checkbox"/> April 17, 2012
Philadelphia, PA	<input type="checkbox"/> June 13 & 14, 2012	<input type="checkbox"/> June 12, 2012
Indianapolis, IN	<input type="checkbox"/> July 11 & 12, 2012	<input type="checkbox"/> July 10, 2012
Atlanta, GA	<input type="checkbox"/> August 15 & 16, 2012	<input type="checkbox"/> August 14, 2012
Portland, OR	<input type="checkbox"/> September 19 & 20, 2012	<input type="checkbox"/> September 18, 2012
Salt Lake City	<input type="checkbox"/> October 10 & 11, 2012	<input type="checkbox"/> October 9, 2012

3. Registration Options

Early Bird
Discount

<input type="checkbox"/> Cooling System Maintenance Training ONLY (1 Day)	\$ 500	\$ 450
<input type="checkbox"/> Oil Analysis Training ONLY (2 Days).....	\$ 800	\$ 700
<input type="checkbox"/> Cooling System Maintenance & Oil Analysis Training (3 Days).....	\$ 1,200	\$ 1,000

4. Payment Method

Payment must be in U.S. dollars by credit card.

Please charge my: VISA MasterCard American Express

Acct. # _____ Exp. Date _____

Cardholder's Name (please print) _____

Cardholder's Signature _____

5. Registration Submission

online: www.polarislabs.com/training-form.php **call:** 877-808-3750 ext. 218

fax: 317-808-3751

mail: 7898 Zionsville Road, Indianapolis, IN 46268

Reservation confirmation and accommodation details will be sent upon receipt of payment.

