

OIOLOGRAPHY™

OIL ANALYSIS MANAGEMENT WEB SERVICE



SHARE TEST RESULTS



MANAGE SAMPLES & TASKS



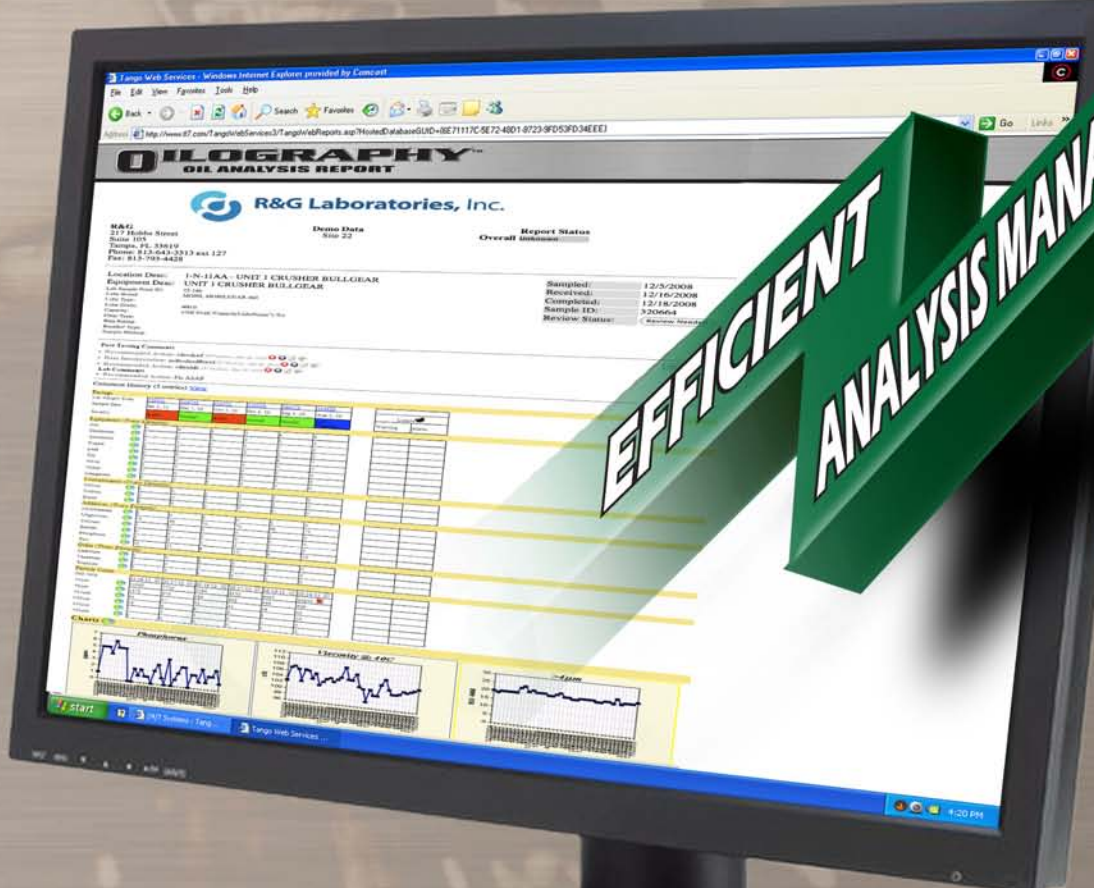
INCREASE ANALYSIS SPEED



CREATE ACCOUNTABILITY



Oilography™ provides a systematic oil sample analysis program for industrial facilities. Oilography's™ web based approach provides easier program management, faster data review, and powerful interactive reports.



EFFICIENT ANALYSIS MANAGEMENT

SHARE TEST RESULTS



OILOGRAPHY™ OIL ANALYSIS REPORT



R&G
217 Hobbs Street
Suite 105
Tampa, FL 33619
Phone: 813-643-3513 ext 127
Fax: 813-793-4428

Demo Data
Site 22

Report Status
Overall Unknown

Location Desc: 1-N-11AA - UNIT 1 CRUSHER BULLGEAR
Equipment Desc: UNIT 1 CRUSHER BULLGEAR
Lab Sample Point ID: 22-146
Lab Brand: MOBIL MOBILGEAR 460
Lab Type:
Lab Grade: 460.0
Capacity: <RE Eval("CapacityUnitsName") %>
Filter Type:
Beta Rating:
Breather Type:
Sample Method:

Sampled: 12/5/2008
Received: 12/16/2008
Completed: 12/18/2008
Sample ID: 320664
Review Status: Review Needed

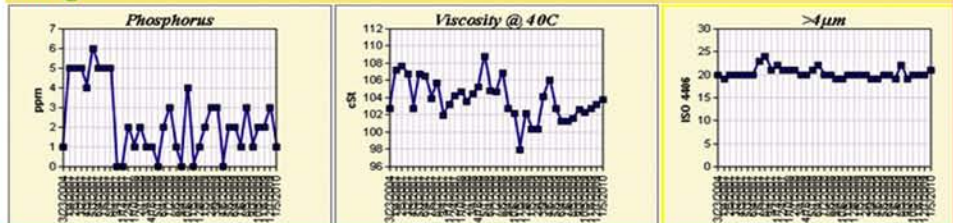
Post-Testing Comments

- Recommended Action: sdsadsad IP Test On Mar 09 01:00
 - Data Interpretation: asdasdasdfasad IP Test On Mar 09 01:00
 - Recommended Action: sdsadsad IP Test On Mar 09 01:00
- Lab Comments**
- Recommended Action: Fix ASAP

Comment History (5 entries) [View](#)

Lab Sample Code	149220	146738	153522	160018	144574	143486	Limit
Sample Date	Jan 5, 10	Dec 7, 09	Nov 5, 09	Oct 5, 09	Sep 3, 09	Aug 5, 09	
Severity	Alert	Normal	Alert	Normal	Normal	Warning	Warning Alarm
Equipment (Trace Elements)							
Iron	4	3	2	4	4		
Chromium	1	0	0	0	0		
Aluminum	1	0	1	1	1		
Copper	2	2	2	2	2		
Lead	9	8	7	8	7		
Tin	0	0	0	0	0		
Silver	0	0	0	0	0		
Nickel	0	0	0	0	0		
Manganese	0	0	0	0	0		
Contaminants (Trace Elements)							
Silicon	1	1	1	1	1		
Sodium	0	0	0	0	0		
Boron	0	0	0	0	0		
Additives (Trace Elements)							
Molybdenum	0	0	0	0	0		
Magnesium	2	66	70	70	69	72	
Calcium	0	0	0	1	0		
Barium	0	0	0	0	0		
Phosphorus	3	2	2	1	3		
Zinc	0	11	9	10	9	10	
Other (Trace Elements)							
Cadmium	0	0	0	0	0		
Vanadium	0	0	0	0	0		
Titanium	0	0	0	0	0		
Particle Count							
ISO 4406	1:18:13	20:17:12	20:16:12	20:17:12	19:16:11	22:14:11	
>4µm	1062	7719	5184	8132	4442	2432	
>6µm	472	974	589	682	448	629	
>14µm	4	37	32	21	16	42	
>20µm	6	8	9	3	3	16	
>30µm	0	0	0	0	0	0	
>40µm	0	0	0	0	0	0	

Charts



LABORATORY'S LOGO AND ADDRESS

SAMPLE INFORMATION

MACHINE DESCRIPTION

DOCUMENT LINKED TO COMMENTS

COMMENT ON RESULT ANALYSIS

PLANT MAY DEFINE SPECIFIC ALARM LIMITS

ANALYSIS RESULTS

CLICK TO TREND ANY INDIVIDUAL TEST PARAMETERS

LAB ALARM INDICATED

TREND CRARTS



INCREASE ANALYSIS SPEED

Samples Awaiting Review | Most Recent | Tasks | Samples At Lab | Sample Points & Scheduling

Actions	Location Desc	Equipment Desc	Status	Sampled	Completed	Lab Sample Code	Company	Site	Review Status	Review Date
	AC-707 - BOIL HOUSE INSTRUMENT AIR COMP	BOIL HOUSE INSTRUMENT AIR COMP	Unknown	Jan 05, 2010	Jan 07, 2010	359326	Demo Data	Site 999	Review Needed	Jan 08, 2010
	AC-708 - BOIL HOUSE INSTRUMENT AIR COMP	BOIL HOUSE INSTRUMENT AIR COMP	Normal	Jan 05, 2010	Jan 07, 2010	359324	Demo Data	Site 999	Reviewed	Mar 05, 2010
	AC-709 - PROCESS INSTRUMENT AIR COMP	PROCESS INSTRUMENT AIR COMP - JOY	Normal	Jan 05, 2010	Jan 07, 2010	359318	Demo Data	Site 999	Reviewed	Mar 05, 2010
	AC-710 - PROCESS INSTRUMENT AIR COMP	PROCESS INSTRUMENT AIR COMP - JOY	Alarm	Jan 05, 2010	Jan 07, 2010	359320	Demo Data	Site 999	Reviewed	Mar 05, 2010
	AC-715 - OXIDATION AIR COMPRESSOR	OXIDATION AIR COMPRESSOR - INGERSOLL-RAND - AIR CO	Alarm	Jan 05, 2010	Jan 07, 2010	359322	Demo Data	Site 999	Reviewed	Mar 05, 2010
	AC-720 - PROCESS AIR COMPRESSOR	PROCESS AIR COMPRESSOR - ELLIOT	Critical	Jan 05, 2010	Jan 07, 2010	359332	Demo Data	Site 999	Reviewed	Feb 24, 2010
	AC-722 - PROCESS AIR COMPRESSOR	PROCESS AIR COMPRESSOR - ELLIOT	Alarm	Oct 05, 2009	Oct 08, 2009	350039	Demo Data	Site 999	No Review Needed	Oct 27, 2009
	AC-723 - PROCESS AIR COMPRESSOR	PROCESS AIR COMPRESSOR - ELLIOT	Unknown	Jan 05, 2010	Jan 07, 2010	359325	Demo Data	Site 999	Review Needed	Jan 08, 2010
	AC-780 - PROCESS AIR COMP AND MOTOR	PROCESS AIR COMP AND MOTOR	Unknown	Jan 05, 2010	Jan 07, 2010	359327	Demo Data	Site 999	Review Needed	Jan 08, 2010
	FN-601 - PR#2 STRIPPER BLOWER	PR#2 STRIPPER BLOWER - ELLIOT	Normal	Jan 05, 2010	Jan 07, 2010	359319	Demo Data	Site 999	Reviewed	Mar 05, 2010
	FN-701 - #1 BOILER FORCED DRAFT FAN	#1 BOILER FORCED DRAFT FAN - ELLIOT	Unknown	Jan 05, 2010	Jan 07, 2010	359335	Demo Data	Site 999	Review Needed	Jan 08, 2010
	FN-702 - #1 BOILER INDUCED AIR FAN	#1 BOILER INDUCED AIR FAN - ELLIOT	Normal	Jan 05, 2010	Jan 07, 2010	359330	Demo Data	Site 999	Reviewed	Mar 05, 2010

SAMPLES AWAITING REVIEW

Samples may appear in Oilgraphy™ as “Awaiting Review.” This means that the user must review the oil report and set a severity in order to accept the sample.

RECENT SAMPLES

The “Most Recent” Tab shows all samples defined for the site: Points Alarm Status, Dates Samples, and Completes. From any point the user may view the oil analysis report and add any pertinent maintenance events. The column headers for this report allows sorting, so if the user wishes to see all alarms at the top or the most recent samples, one click on the column leader produces this display.

SAMPLES AT LAB

The “Samples at Lab” Tab shows all samples currently waiting at the lab for testing.

TASKS

An Oilgraphy™ Task is a strategic grouping of samples which will be drawn and sent to the lab at the same time. The task is scheduled on a designated interval and sample point progress is tracked as Sampled, Skipped, At Lab, Reviewed, and Task Closed. Once a task is completed, a task report is maintained for program reporting and history.



MANAGE SAMPLES & TASKS

Temporary Alias	Location	Equipment	Sample	Oil Lab	Sample Date/Time	At Lab	Review Status	Last Sampled	Tango
C-1	AC-707 - BOIL HOUSE INSTRUMENT AIR COMP	BOIL HOUSE INSTRUMENT AIR COMP	Mark Sampled	REG	Mar 25, 2010 08:00:00 AM			Jan 05, 2010	
C-10	RG-003 GEAR-BOX - GEAR-BOX	GEAR-BOX	Mark Sampled	REG	Mar 22, 2010 03:00:00 PM			Jan 05, 2010	
C-2	AC-708 - BOIL HOUSE INSTRUMENT AIR COMP	BOIL HOUSE INSTRUMENT AIR COMP	Mark Sampled	REG	Mar 25, 2010 03:00:00 PM			Jan 05, 2010	
	SS AIR COMP	PROCESS INSTRUMENT AIR COMP - JOY	Mark Sampled	REG	Mar 25, 2010 08:00:00 AM			Jan 05, 2010	
	SS AIR COMP	PROCESS INSTRUMENT AIR COMP - JOY	Mark Sampled	REG	Mar 22, 2010 03:00:00 PM			Jan 05, 2010	
	SS AIR	OXIDATION AIR COMPRESSOR - INGERSOLL-RAND - AIR CO	Mark Sampled	REG	Mar 25, 2010 08:00:00 AM			Jan 05, 2010	
	SS AIR	PROCESS AIR COMPRESSOR - ELLIOT	Mark Sampled	REG	Mar 25, 2010 08:00:00 AM			Jan 05, 2010	
	SS AIR	PROCESS AIR COMPRESSOR - ELLIOT	Mark Sampled	REG	Apr 26, 2010 11:00:00 AM			Oct 08, 2009	
	SS AIR	PROCESS AIR COMPRESSOR - ELLIOT	Mark Sampled	REG	Apr 26, 2010 11:00:00 AM			Jan 05, 2010	
	SS AIR TOR	PROCESS AIR COMP AND MOTOR	Mark Sampled	REG	Mar 09, 2010 08:00:00 AM			Jan 05, 2010	



SAMPLE LABELS

SCHEDULE DATE AND TIMES

TANGO™ LOCATION MAPPING

This tab allows the setup and modification, management of sample collection schedules, and the printing of sample bottle labels. Sample collection schedules can be managed by individual sample points or grouped into tasks.

CREATE ACCOUNTABILITY



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R&G
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Suite 105
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Phone: 813-643-3513 ext 127
Fax: 813-793-4428

Demo Data
Site 999

Report Status
Overall **Minor**

Technology Condition Entry

Location: 70 SP Compressor House > AIR > 1CENTAC > Motor

Condition Entry Details

Technology: Oil - Lab
Analyst: John Reliable
Severity: 2 (Repair within 30 days)
Entry Date: Mar 09, 2010
Work Request:
Work Order:

Suspected Faults

Fault	Fault Group
Lubricant contaminated Lubrication	

Linked Documents

No linked documents are associated with this entry.

Integrated Condition Status Report

User: John Reliable, Date: 03/09/2010, Time: 21:42:39

Color	Level	Entries	Description
Red	1	2 (14%)	Repair within 7 days
Yellow	2	7 (58%)	Repair within 30 days
Green	3	2 (14%)	Repair within 90 days
Blue	4	1 (8%)	Under Surveillance, No action required.

Open Condition Entries

Severity	Asset	Component	Technologies	Days Awaiting Checkoff	Work Order Status	Work Order Numbers	Case Closure
1	CLDWELL	MOTOR1	Infrared, Vibration - Route	1140	1 of 2	02-14056	Close Entry
1	2CENTAC	Air leaks	Visual Inspection	1107	0 of 1		Close Entry
2	REACTOR	LFAN	Vibration - Special Test	994	0 of 1		Close Entry
2	CASTING	25PH1	Oil - Screening, Vibration - Special Test	1136	1 of 2	03-02011	Close Entry
2	WASTE	FAN#3	Vibration - Route	412	0 of 1		Close Entry
2	WASTE	FAN#2	Electrical - Online	1255	0 of 1		Close Entry
2	2CENTAC	Compressor	Oil - Lab	0	0 of 1		Close Entry

Location: 70 SP Compressor House > AIR > 2CENTAC > Compressor (Locate In Tree)

Entry	Severity	Technology	Faults
Mar-09-2010 2	2	Oil - Lab	Lubricant contaminated

By Visitor

[Oilography Comments and Recommendations \(View Oilography Report\)](#)
Note: Based on the results of the analyses performed on this sample the unit and lube appear satisfactory for continued use.
Recommended Action: Continue Lab
SUNOCO SUNVIS 46 - The results of the analyses are within normal tolerances and/or are consistent with the established history.
Date Interpretation: Source: Lab

Oilography Charts



Oilography™ may be combined with the Tango™ reliability information management package to provide integration with other condition monitoring technologies, problem reporting, work order tracking, and equipment specific histories. Integrating Oilography™ with Tango allows your oil analysis program to become an integral part of a plant-wide condition based maintenance program.

