

R&G Laboratories, Inc.
Oil Analysis Severity
Summary
OASIS EXAMPLE REPORT

N = Normal O = Observation M = Moderate MH = Moderately High S = Severe

<u>Lab Number</u>	<u>Name</u>	<u>Description</u>	<u>Date</u>	<u>Severity</u>
350121	NHW11 TYPE WS 27K	ROBERT WILSON	10/08/2009	O
350120	ZVW30 TYPE WS 5K	ROBERT WILSON	10/08/2009	O
349375	ZVW30 TYPE WS 5K	ROBERT WILSON	09/30/2009	O

R&G Laboratories, Inc.
Oil Analysis Severity
Report
OASIS EXAMPLE REPORT

N = Normal O = Observation M = Moderate MH = Moderately High S = Severe

Lab Number: 350121	Name: NHW11 TYPE WS 27K	Date: 10/08/2009	Severity: 0
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Recommended Action:

Continue sampling at frequent intervals to track condition. Check for sources of abrasives entry.

Data Interpretation:

The iron and copper content have been flagged for observation. Abrasive contamination is suspected based on the silicon content.

Lab Number: 350120	Name: ZVW30 TYPE WS 5K	Date: 10/08/2009	Severity: 0
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Sample Comments:

New Lube Reference Sample.

Data Interpretation:

Certain particle count values are higher than desired and have been flagged for observation.

Lab Number: 349375	Name: ZVW30 TYPE WS 5K	Date: 09/30/2009	Severity: 0
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Recommended Action:

Continue sampling at frequent intervals to track condition. Check for sources of abrasives entry.

Data Interpretation:

The iron content has been flagged for observation. Abrasive contamination is suspected based on the silicon content. Certain particle count values are higher than desired and have been flagged for observation.

**R&G Laboratories,
Inc.
Oil Analysis Data**

October 12, 2009

R&G Laboratories, Inc. - Oil Analysis Data Sheet Report

OASIS EXAMPLE REPORT

Sample ID: NHW11 TYPE WS 27K

Description: ROBERT WILSON

Manufacturer:

Oil Type:

Grade:

Lab Number	Units	350121	
Sample Date		10/08/09	
WEAR METALS			
Iron Fe	ppm	32	
Chromium Cr	ppm	1	
Molybdenum Mo	ppm	0	
Aluminum Al	ppm	7	
Copper Cu	ppm	73	
Lead Pb	ppm	0	
Tin Sn	ppm	5	
Silver Ag	ppm	0	
Nickel Ni	ppm	5	
Vanadium V	ppm	0	
Titanium Ti	ppm	0	
Manganese Mn	ppm	0	
Cadmium Cd	ppm	0	
CONTAMINANT METALS			
Silicon Si	ppm	33	
Sodium Na	ppm	0	
Boron B	ppm	62	
ADDITIVE METALS			
Magnesium Mg	ppm	1	
Calcium Ca	ppm	181	
Barium Ba	ppm	0	
Phosphorus P	ppm	268	
Zinc Zn	ppm	11	
NON-METALLIC CONT.			
Water	% vol	Nil	
Solids	% vol	<0.1	
LUBE DATA			
Viscosity @ 40'C	cSt	23.3	
Viscosity @ 100'C	cSt	5.1	
ADDITIONAL TESTS			
Viscosity Index		154	

Severity: (O) - Observation

Recommended Action:

Continue sampling at frequent intervals to track condition. Check for sources of abrasives entry.

Data Interpretation:

The iron and copper content have been flagged for observation. Abrasive contamination is suspected based on the silicon content.

R&G Laboratories, Inc. - Oil Analysis Data Sheet Report

OASIS EXAMPLE REPORT

Sample ID: ZVW30 TYPE WS 5K

Description: ROBERT WILSON

Manufacturer:

Oil Type:

Grade:

Lab Number		Units	350120	349375	
Sample Date			10/08/09	09/30/09	
WEAR METALS					
Iron	Fe	ppm	1	21	
Chromium	Cr	ppm	0	1	
Molybdenum	Mo	ppm	1	1	
Aluminum	Al	ppm	0	19	
Copper	Cu	ppm	0	16	
Lead	Pb	ppm	0	0	
Tin	Sn	ppm	0	1	
Silver	Ag	ppm	0	0	
Nickel	Ni	ppm	0	2	
Vanadium	V	ppm	0	0	
Titanium	Ti	ppm	0	0	
Manganese	Mn	ppm	0	5	
Cadmium	Cd	ppm	0	0	
CONTAMINANT METALS					
Silicon	Si	ppm	50	103	
Sodium	Na	ppm	0	2	
Boron	B	ppm	69	47	
ADDITIVE METALS					
Magnesium	Mg	ppm	0	0	
Calcium	Ca	ppm	105	120	
Barium	Ba	ppm	0	3	
Phosphorus	P	ppm	258	247	
Zinc	Zn	ppm	2	10	
NON-METALLIC CONT.					
Water		% vol	Nil	Nil	
Solids		% vol	<0.1	<0.1	
LUBE DATA					
Viscosity @ 40'C		cSt	24.3	23.3	
Viscosity @ 100'C		cSt	5.4	5.3	
Total Acid Number		mg KOH/g	1.41	1.49	
PARTICLE COUNT					
4		/ml	65779	99999	
6		/ml	16108	9959	
14		/ml	934	18	
20		/ml	237	4	
30		/ml	29	2	
40		/ml	8	0	
ADDITIONAL TESTS					
ISO Code 4 um			23	24	
ISO Code 6 um			21	20	
ISO Code 14 um			17	11	
Viscosity Index			166	171	

R&G Laboratories, Inc. - Oil Analysis Data Sheet Report

OASIS EXAMPLE REPORT

Sample ID: ZVW30 TYPE WS 5K

Description: ROBERT WILSON

Manufacturer:

Oil Type:

Grade:

Lab Number		350120	349375	
Sample Date	Units	10/08/09	09/30/09	

Severity: (O) - Observation

Sample Comments:

New Lube Reference Sample.

Data Interpretation:

Certain particle count values are higher than desired and have been flagged for observation.