

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

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

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

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**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.

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**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.

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**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	Sample Date	Units	350121	
			10/08/09	
<b>WEAR METALS</b>				
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	
<b>CONTAMINANT METALS</b>				
Silicon	Si	ppm	33	
Sodium	Na	ppm	0	
Boron	B	ppm	62	
<b>ADDITIVE METALS</b>				
Magnesium	Mg	ppm	1	
Calcium	Ca	ppm	181	
Barium	Ba	ppm	0	
Phosphorus	P	ppm	268	
Zinc	Zn	ppm	11	
<b>NON-METALLIC CONT.</b>				
Water		% vol	Nil	
Solids		% vol	<0.1	
<b>LUBE DATA</b>				
Viscosity @ 40'C		cSt	23.3	
Viscosity @ 100'C		cSt	5.1	
<b>ADDITIONAL TESTS</b>				
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	Sample Date	Units	350120 10/08/09	349375 09/30/09	
<b>WEAR METALS</b>					
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	
<b>CONTAMINANT METALS</b>					
Silicon	Si	ppm	50	103	
Sodium	Na	ppm	0	2	
Boron	B	ppm	69	47	
<b>ADDITIVE METALS</b>					
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	
<b>NON-METALLIC CONT.</b>					
Water		% vol	Nil	Nil	
Solids		% vol	<0.1	<0.1	
<b>LUBE DATA</b>					
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	
<b>PARTICLE COUNT</b>					
4		/ml	65779	99999	
6		/ml	16108	9959	
14		/ml	934	18	
20		/ml	237	4	
30		/ml	29	2	
40		/ml	8	0	
<b>ADDITIONAL TESTS</b>					
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	Units	350120	349375	
Sample Date		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.