



# PROBLEM SUMMARY

Sample Rating Trend



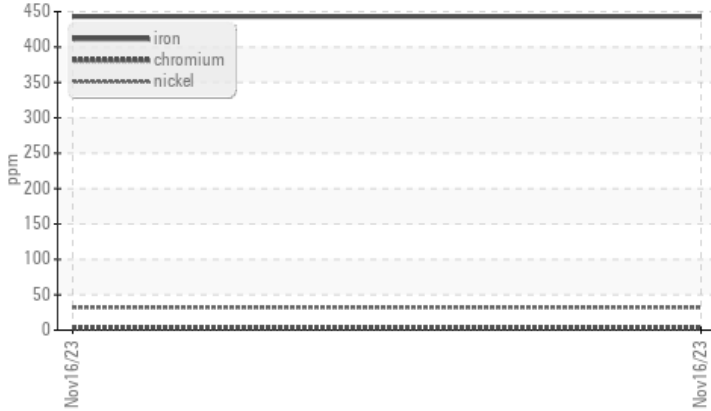
**DIRT**



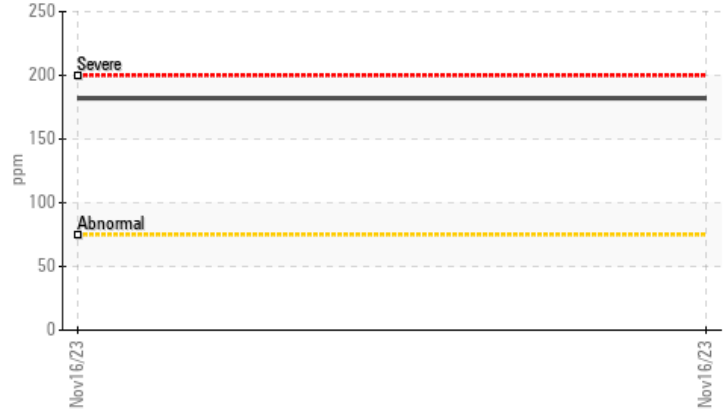
Area  
**{UNASSIGNED}**  
 Machine Id  
**3468**  
 Component  
**Differential**  
 Fluid  
**NOT GIVEN (--- GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Ferrous Alloys



### ▲ Silicon (ppm)



## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>ABNORMAL</b>	---	---
Nickel	ppm	ASTM D5185m	>10	▲ 32	---	---
Silicon	ppm	ASTM D5185m	>75	▲ 182	---	---

Customer Id: APPLEVW  
 Sample No.: WC0832970  
 Lab Number: 06011761  
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

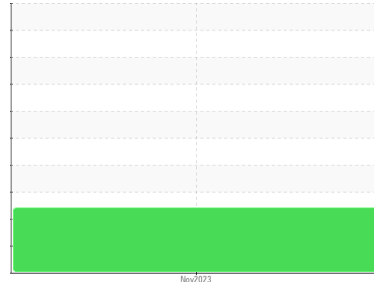
Action	Status	Date	Done By	Description
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend



Area  
**{UNASSIGNED}**  
 Machine Id  
**3468**  
 Component  
**Differential**  
 Fluid  
**NOT GIVEN (--- GAL)**

## DIAGNOSIS

**Recommendation**  
 We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

**Wear**  
 The nickel level is abnormal. All other component wear rates are normal.

**Contamination**  
 Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material.

**Fluid Condition**  
 The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0832970</b>	---	---
Sample Date	Client Info	<b>16 Nov 2023</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >.2	<b>NEG</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >500	<b>443</b>	---	---
Chromium	ppm ASTM D5185m >10	<b>3</b>	---	---
Nickel	ppm ASTM D5185m >10	<b>▲ 32</b>	---	---
Titanium	ppm ASTM D5185m	<b>&lt;1</b>	---	---
Silver	ppm ASTM D5185m	<b>0</b>	---	---
Aluminum	ppm ASTM D5185m >25	<b>6</b>	---	---
Lead	ppm ASTM D5185m >25	<b>0</b>	---	---
Copper	ppm ASTM D5185m >100	<b>1</b>	---	---
Tin	ppm ASTM D5185m >10	<b>0</b>	---	---
Vanadium	ppm ASTM D5185m	<b>0</b>	---	---
Cadmium	ppm ASTM D5185m	<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	<b>118</b>	---	---
Barium	ppm ASTM D5185m	<b>8</b>	---	---
Molybdenum	ppm ASTM D5185m	<b>&lt;1</b>	---	---
Manganese	ppm ASTM D5185m	<b>6</b>	---	---
Magnesium	ppm ASTM D5185m	<b>9</b>	---	---
Calcium	ppm ASTM D5185m	<b>74</b>	---	---
Phosphorus	ppm ASTM D5185m	<b>876</b>	---	---
Zinc	ppm ASTM D5185m	<b>36</b>	---	---
Sulfur	ppm ASTM D5185m	<b>25632</b>	---	---

## CONTAMINANTS

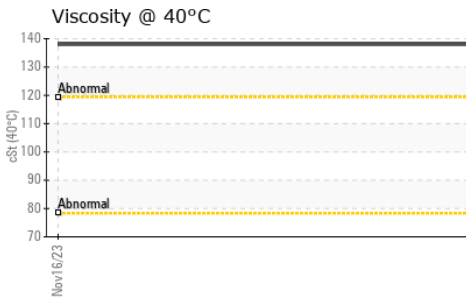
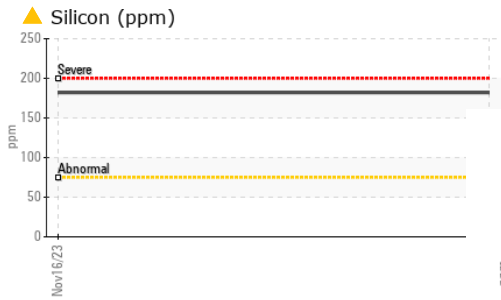
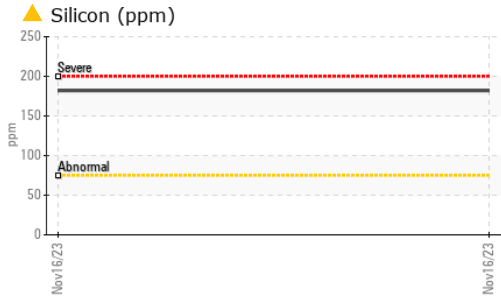
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >75	<b>▲ 182</b>	---	---
Sodium	ppm ASTM D5185m	<b>12</b>	---	---
Potassium	ppm ASTM D5185m >20	<b>5</b>	---	---

## VISUAL

method	limit/base	current	history1	history2
White Metal	scalar *Visual NONE	<b>NONE</b>	---	---
Yellow Metal	scalar *Visual NONE	<b>NONE</b>	---	---
Precipitate	scalar *Visual NONE	<b>NONE</b>	---	---
Silt	scalar *Visual NONE	<b>NONE</b>	---	---
Debris	scalar *Visual NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar *Visual NONE	<b>NONE</b>	---	---
Appearance	scalar *Visual NORML	<b>NORML</b>	---	---
Odor	scalar *Visual NORML	<b>NORML</b>	---	---
Emulsified Water	scalar *Visual >.2	<b>NEG</b>	---	---
Free Water	scalar *Visual	<b>NEG</b>	---	---



# OIL ANALYSIS REPORT

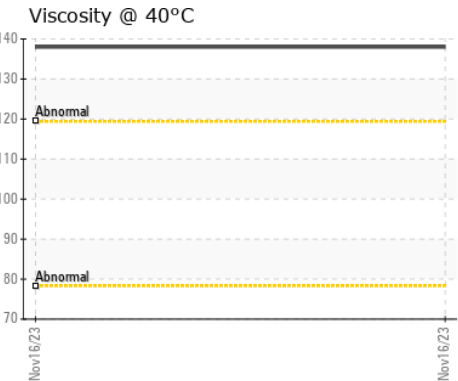
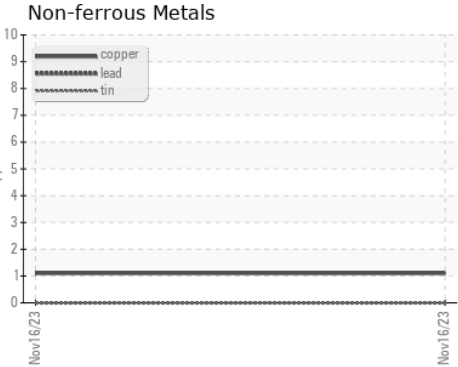
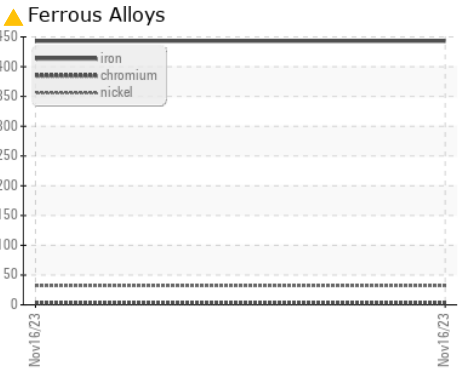


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	<b>138</b>	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image	no image
Bottom				no image	no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0832970      **Received** : 17 Nov 2023  
**Lab Number** : **06011761**      **Diagnosed** : 21 Nov 2023  
**Unique Number** : 10750905      **Diagnostician** : Don Baldrige  
**Test Package** : CONST

**Apple Valley Waste - Corporate**  
 771 James Burr Blvd  
 Kearneysville, WV  
 US 25430  
 Contact: Frank Hottle  
 Frank.hottle@applevalleywaste.com  
 T: (717)977-3920  
 F: (304)724-1890

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)