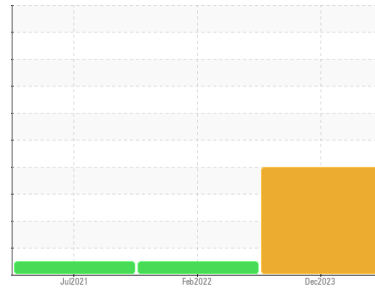




# PROBLEM SUMMARY

Sample Rating Trend



**WATER**



Machine Id  
**PM1 - VONDREHLE**

Component

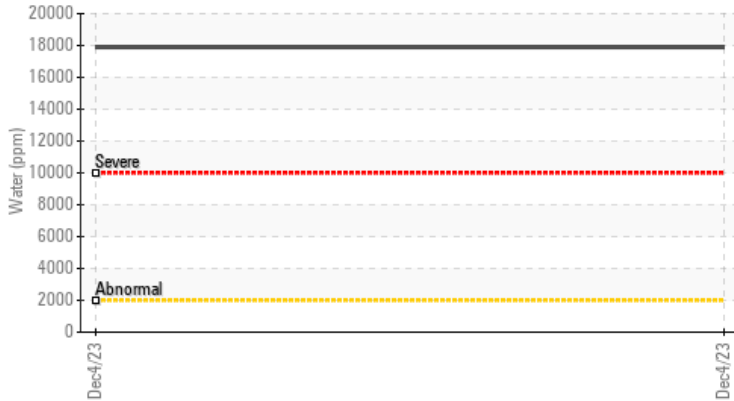
**Gearbox**

Fluid

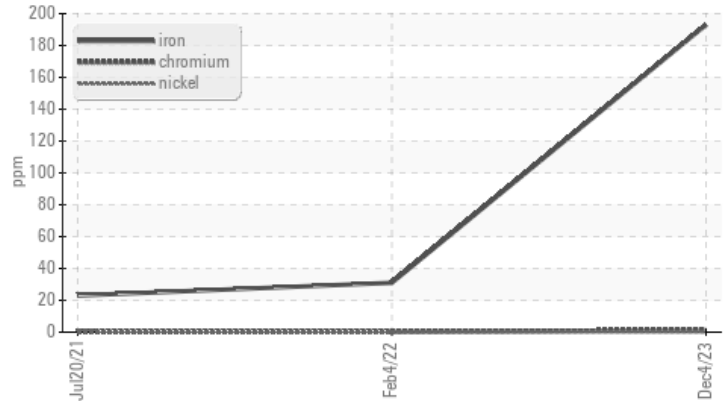
**NOT GIVEN (--- GAL)**

## COMPONENT CONDITION SUMMARY

### Water (KF)



### Ferrous Alloys



## RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>200	▲ <b>193</b>	31	23
Water	%	ASTM D6304	>0.2	● <b>1.79</b>	---	---
ppm Water	ppm	ASTM D6304	>2000	● <b>17900</b>	---	---
Emulsified Water	scalar	*Visual	>0.2	● <b>0.2%</b>	NEG	NEG

Customer Id: QUAROC  
 Sample No.: WC06027926  
 Lab Number: 06027926  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@wearcheckusa.com)

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
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

## HISTORICAL DIAGNOSIS

### 04 Feb 2022 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 20 Jul 2021 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

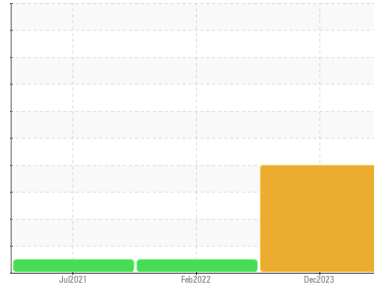
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Machine Id  
**PM1 - VONDREHLE**

Component  
**Gearbox**  
Fluid  
**NOT GIVEN (--- GAL)**

## DIAGNOSIS

### Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

### Wear

Gear wear is indicated.

### Contamination

There is a high concentration of water present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC06027926</b>	WC05463708	TL05346535
Sample Date	Client Info		<b>04 Dec 2023</b>	04 Feb 2022	20 Jul 2021
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>SEVERE</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>▲ 193</b>	31	23
Chromium	ppm	ASTM D5185m >15	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m >25	<b>3</b>	0	<1
Lead	ppm	ASTM D5185m >100	<b>2</b>	<1	<1
Copper	ppm	ASTM D5185m >200	<b>62</b>	1	1
Tin	ppm	ASTM D5185m >25	<b>2</b>	<1	<1
Antimony	ppm	ASTM D5185m >5	<b>---</b>	0	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	<1

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>4</b>	36	35
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Calcium	ppm	ASTM D5185m	<b>3</b>	0	2
Phosphorus	ppm	ASTM D5185m	<b>329</b>	412	337
Zinc	ppm	ASTM D5185m	<b>120</b>	29	22
Sulfur	ppm	ASTM D5185m	<b>4838</b>	4267	4060

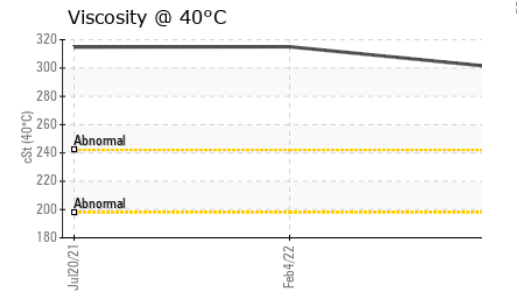
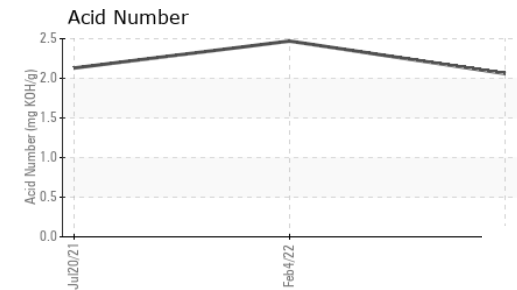
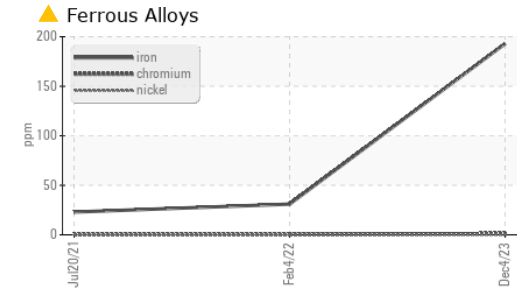
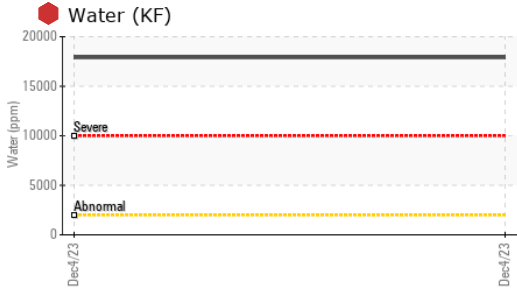
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>1</b>	2	<1
Sodium	ppm	ASTM D5185m	<b>2</b>	2	4
Potassium	ppm	ASTM D5185m >20	<b>1</b>	<1	<1
Water	%	ASTM D6304 >0.2	<b>● 1.79</b>	---	---
ppm Water	ppm	ASTM D6304 >2000	<b>● 17900</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>2.06</b>	2.47	2.13

# OIL ANALYSIS REPORT



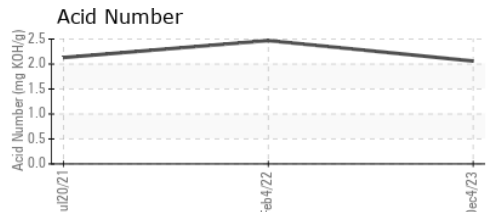
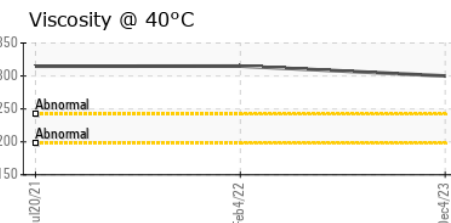
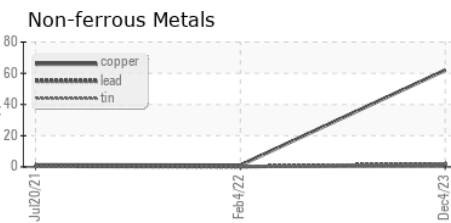
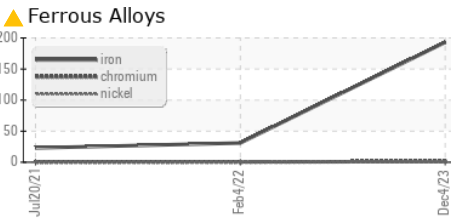
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	300	315	314.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC06027926    **Received** : 07 Dec 2023  
**Lab Number** : 06027926    **Diagnosed** : 11 Dec 2023  
**Unique Number** : 10777717    **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF )

**QUALITY OIL AND GAS COMPANY**  
 203 WEST BROAD AVE  
 ROCKINGHAM, NC  
 US 28379  
 Contact: JASON STROLL  
 jstroll@qualityoilandgas.com  
 T: (910)997-3101  
 F: x:

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)