



# PROBLEM SUMMARY

Sample Rating Trend

WEAR



Area

[S-249]

Machine Id

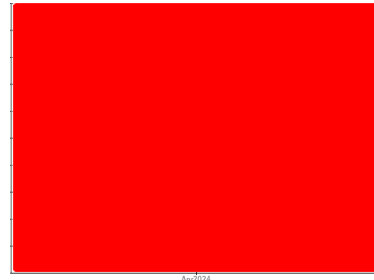
## 5/6 - SPECIAL METALS NEWTON NC

Component

Gear Unit

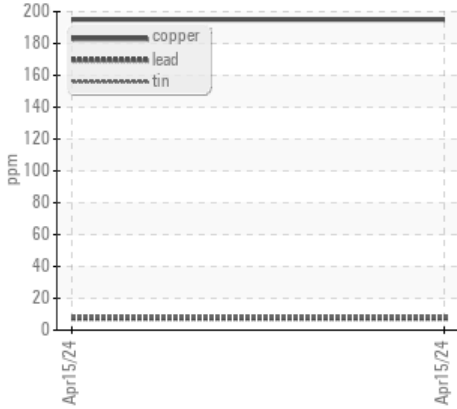
Fluid

MINERAL BASED ISO 320 EP (--- GAL)

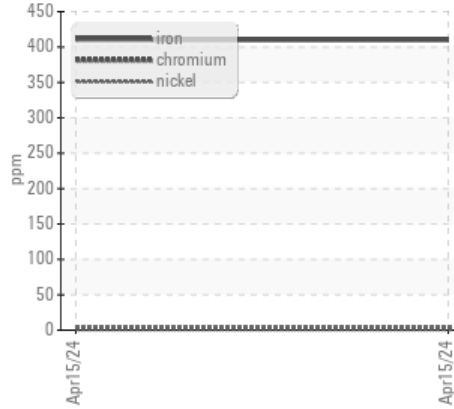


### COMPONENT CONDITION SUMMARY

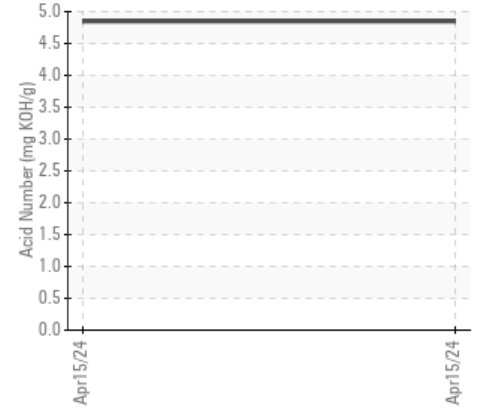
#### ▲ Non-ferrous Metals



#### ▲ Ferrous Alloys



#### ▲ Acid Number



### RECOMMENDATION

The oil is near the end of its useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition. Please submit a sample of the new (unused) oil to establish a baseline. NOTE: Please provide information regarding reservoir capacity with next sample.

### PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>150	▲ 410	---	---
Copper	ppm	ASTM D5185m	>50	▲ 195	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		▲ 4.85	---	---

Customer Id: QUAROC  
 Sample No.: WC06153238  
 Lab Number: 06153238  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Doug Bogart +1 (800)237-1369 x4016  
[dougb@wearcheckusa.com](mailto:dougb@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
Service/change Fluid	---	---	?	The oil is near the end of it's useful service life, recommend schedule an oil change.
Resample	---	---	?	We recommend an early resample to monitor this condition. Please submit a sample of the new (unused) oil to establish a baseline.
Information Required	---	---	?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area

[S-249]

Machine Id

5/6 - SPECIAL METALS NEWTON NC

Component

Gear Unit

Fluid

MINERAL BASED ISO 320 EP (--- GAL)

## DIAGNOSIS

### ▲ Recommendation

The oil is near the end of its useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition. Please submit a sample of the new (unused) oil to establish a baseline. NOTE: Please provide information regarding reservoir capacity with next sample.

### ▲ Wear

Gear wear is indicated.

### Contamination

There is no indication of any contamination in the oil.

### ▲ Fluid Condition

The AN level is at the top-end of the recommended limit.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC06153238	---	---
Sample Date	Client Info		15 Apr 2024	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			SEVERE	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >150	▲ 410	---	---
Chromium	ppm	ASTM D5185m >10	2	---	---
Nickel	ppm	ASTM D5185m >10	4	---	---
Titanium	ppm	ASTM D5185m	0	---	---
Silver	ppm	ASTM D5185m	0	---	---
Aluminum	ppm	ASTM D5185m >25	1	---	---
Lead	ppm	ASTM D5185m >100	7	---	---
Copper	ppm	ASTM D5185m >50	▲ 195	---	---
Tin	ppm	ASTM D5185m >10	8	---	---
Vanadium	ppm	ASTM D5185m	0	---	---
Cadmium	ppm	ASTM D5185m	0	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	257	---	---
Barium	ppm	ASTM D5185m	10	---	---
Molybdenum	ppm	ASTM D5185m	0	---	---
Manganese	ppm	ASTM D5185m	5	---	---
Magnesium	ppm	ASTM D5185m	2	---	---
Calcium	ppm	ASTM D5185m	30	---	---
Phosphorus	ppm	ASTM D5185m	301	---	---
Zinc	ppm	ASTM D5185m	6	---	---
Sulfur	ppm	ASTM D5185m	7582	---	---

## CONTAMINANTS

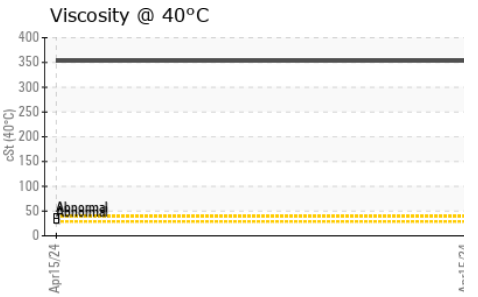
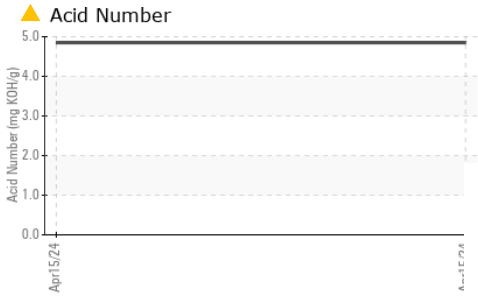
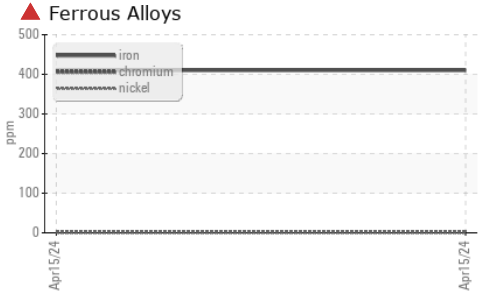
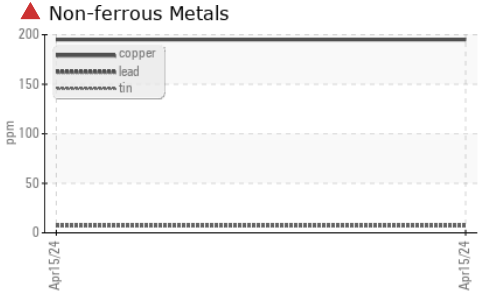
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	2	---	---
Sodium	ppm	ASTM D5185m	322	---	---
Potassium	ppm	ASTM D5185m >20	9	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	▲ 4.85	---	---





# OIL ANALYSIS REPORT



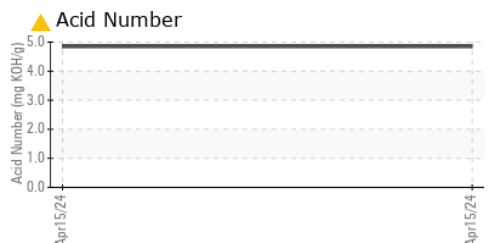
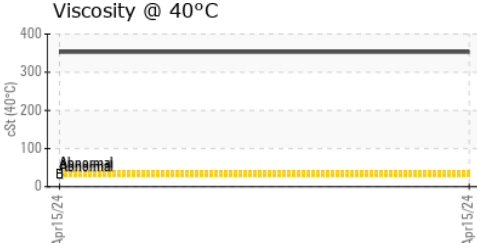
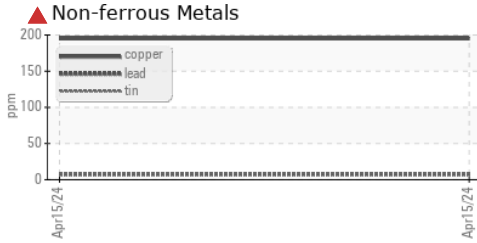
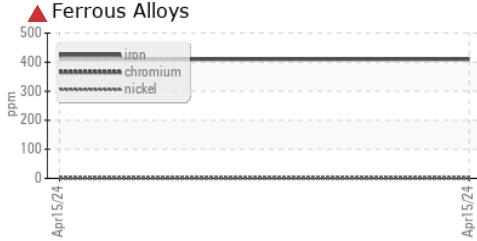
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	353	---	---

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC06153238      **Received** : 18 Apr 2024  
**Lab Number** : 06153238      **Tested** : 19 Apr 2024  
**Unique Number** : 10983316      **Diagnosed** : 22 Apr 2024 - Doug Bogart  
**Test Package** : IND 2

**QUALITY OIL AND GAS COMPANY**  
 203 WEST BROAD AVE  
 ROCKINGHAM, NC  
 US 28379  
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 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)