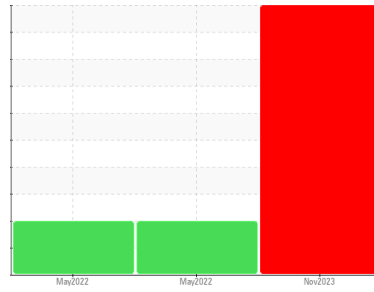




# PROBLEM SUMMARY

Sample Rating Trend



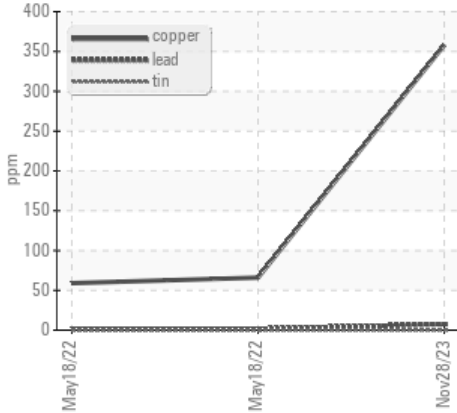
VISUAL METAL



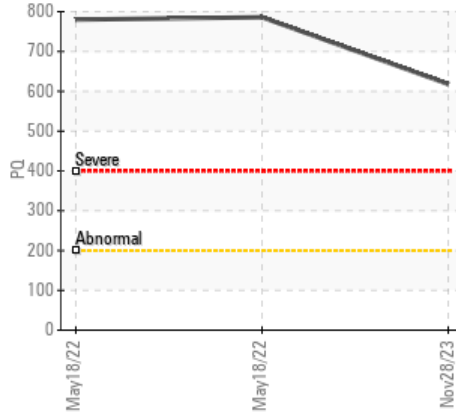
Area  
**FRONTIER II**  
 Machine Id  
**18WEA86917 - MAIN BEARING**  
 Component  
**Grease**  
 Fluid  
**NOT GIVEN (--- LTR)**

## COMPONENT CONDITION SUMMARY

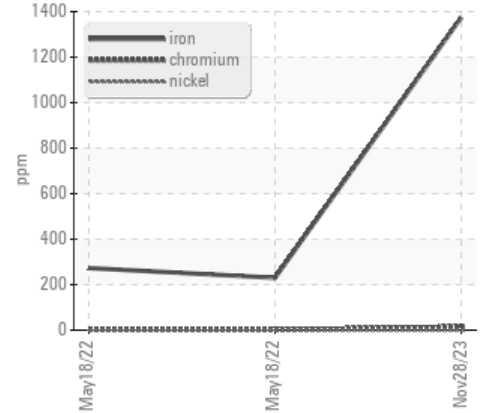
### Non-ferrous Metals



### PQ



### Ferrous Alloys



## RECOMMENDATION

Re-sample to verify the actual oil condition. Purge old grease if still abnormal and monitor the trend of iron level. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	ABNORMAL
PQ		ASTM D8184	>200	▲ 618	▲ 786	▲ 780
Iron	ppm	ASTM D5185m	>250	▲ 1374	273	230
Chromium	ppm	ASTM D5185m	>10	▲ 15	2	2
Copper	ppm	ASTM D5185m	>75	● 358	59	66

Customer Id: NORDEX  
 Sample No.: NX06026959  
 Lab Number: 06026959  
 Test Package: GRS 1



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
Monitor	---	---	?	Re-sample to verify the actual oil condition. Purge old grease if still abnormal and monitor the trend of iron level.
Change Fluid	---	---	?	Re-sample to verify the actual oil condition. Purge old grease if still abnormal and monitor the trend of iron level.
Resample	---	---	?	Re-sample to verify the actual oil condition. Purge old grease if still abnormal and monitor the trend of iron level. We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS

### 18 May 2022 Diag: Doug Bogart

#### WEAR



No corrective action is recommended at this time. We recommend an early resample to establish wear rate.  
NOTE: one of two samples received with same ID. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the grease. The AN level is acceptable for this fluid.

[view report](#)



### 18 May 2022 Diag: Doug Bogart

#### WEAR



No corrective action is recommended at this time. We recommend an early resample to establish wear rate.  
NOTE: one of two samples received with same ID. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the grease. The AN level is acceptable for this fluid.

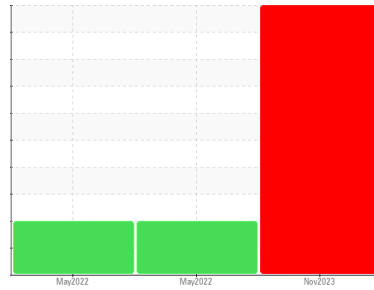
[view report](#)





# GREASE ANALYSIS

Sample Rating Trend



VISUAL METAL



Area  
**FRONTIER II**  
 Machine Id  
**18WEA86917 - MAIN BEARING**  
 Component  
**Grease**  
 Fluid  
**NOT GIVEN (--- LTR)**

## DIAGNOSIS

### Recommendation

Re-sample to verify the actual oil condition. Purge old grease if still abnormal and monitor the trend of iron level. We recommend an early resample to monitor this condition.

### Wear

Moderate concentration of visible metal present. Bearing and/or bushing wear is indicated.

### Grease Condition

The condition of the grease is acceptable for the time in service.

### Contaminants

There is no indication of any contamination in the grease.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>NX06026959</b>	NX05566001	NX05565999
Sample Date	Client Info	<b>28 Nov 2023</b>	18 May 2022	18 May 2022
Machine Age	hrs	<b>0</b>	0	0
Grease Age	hrs	<b>0</b>	0	0
Grease Serviced	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>SEVERE</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

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

## WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184 >200	<b>▲ 618</b>	▲ 786	▲ 780
Iron	ppm ASTM D5185m >250	<b>▲ 1374</b>	273	230
Chromium	ppm ASTM D5185m >10	<b>▲ 15</b>	2	2
Nickel	ppm ASTM D5185m >5	<b>0</b>	0	0
Cadmium	ppm ASTM D5185m	<b>2</b>	<1	<1
Titanium	ppm ASTM D5185m	<b>1</b>	0	0
Vanadium	ppm ASTM D5185m	<b>2</b>	<1	<1
Lead	ppm ASTM D5185m >25	<b>7</b>	1	2
Copper	ppm ASTM D5185m >75	<b>● 358</b>	59	66
Tin	ppm ASTM D5185m >5	<b>0</b>	0	0
Silver	ppm ASTM D5185m >5	<b>&lt;1</b>	0	<1

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	<b>226</b>	171	146
Magnesium	ppm ASTM D5185m	<b>0</b>	0	0
Manganese	ppm ASTM D5185m	<b>12</b>	4	4
Molybdenum	ppm ASTM D5185m	<b>6109</b>	2005	1672
Phosphorus	ppm ASTM D5185m	<b>1217</b>	663	577
Zinc	ppm ASTM D5185m	<b>483</b>	44	43

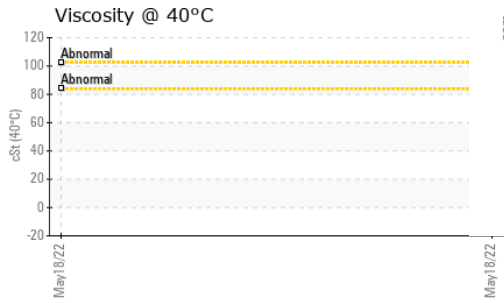
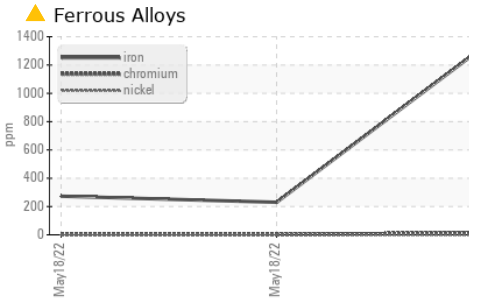
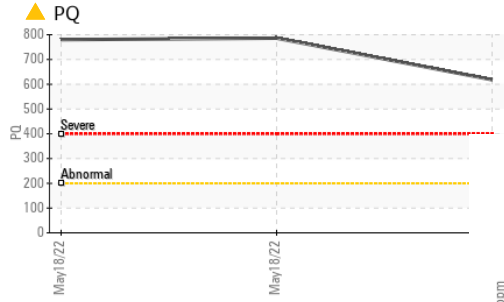
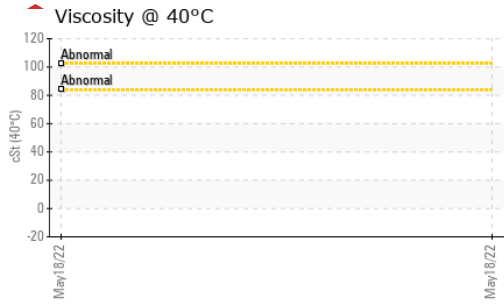
## THICKENER/SOAP

method	limit/base	current	history1	history2
Aluminum	ppm ASTM D5185m	<b>0</b>	6	5
Barium	ppm ASTM D5185m	<b>16</b>	5	4
Calcium	ppm ASTM D5185m	<b>25</b>	8	7
Sodium	ppm ASTM D5185m	<b>15</b>	8	6
Lithium	ppm ASTM D5185m	<b>3680</b>	2397	2045
Sulfur	ppm ASTM D5185m	<b>6558</b>	5169	4431

## CONTAMINANTS

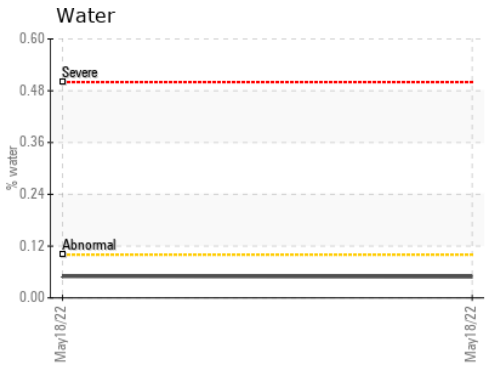
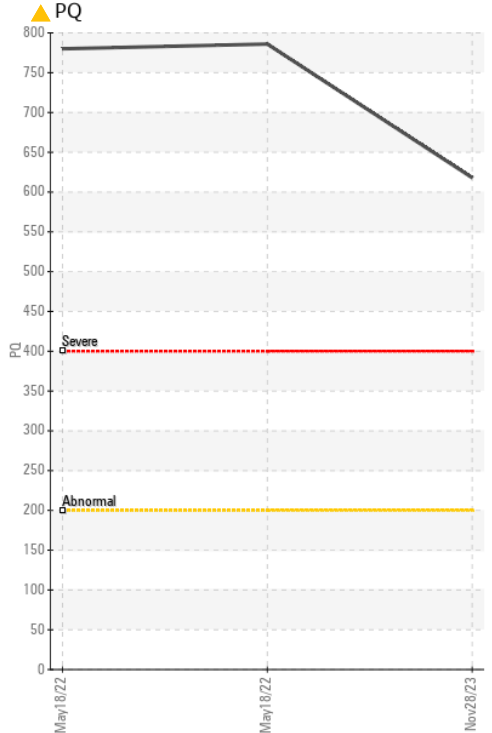
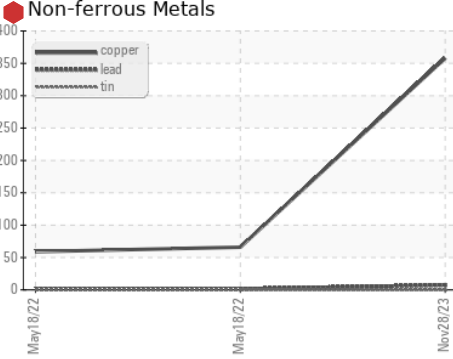
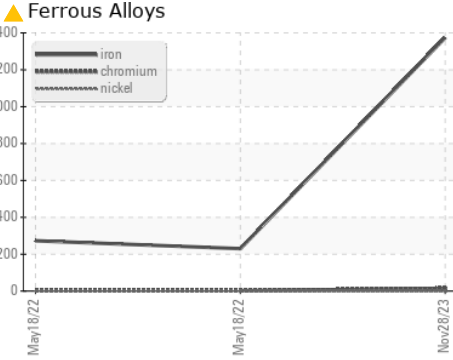
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >150	<b>128</b>	40	34
Potassium	ppm ASTM D5185m	<b>6</b>	2	1

# GREASE ANALYSIS



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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : NX06026959     **Received** : 06 Dec 2023  
**Lab Number** : 06026959     **Diagnosed** : 26 Dec 2023  
**Unique Number** : 10776750     **Diagnostician** : Doug Bogart  
**Test Package** : GRS 1 ( Additional Tests: KV40, SCREEN )

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)

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