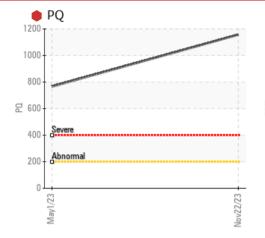
PROBLEM SUMMARY

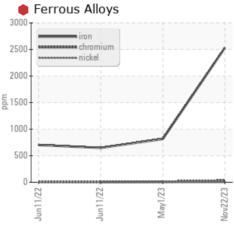
Area **FRONTIER II [200006776]** Machine Id **54WEA86923** Component

Main Grease Fluid NOT GIVEN (--- LTR)

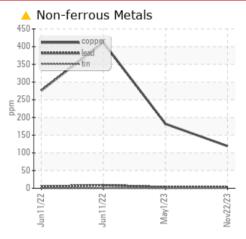
IEA

COMPONENT CONDITION SUMMARY









RECOMMENDATION

Purge old grease immediately. We recommend an early resample to monitor this condition.

PROBLEMATIC T	EST RE	SULTS				
Sample Status				SEVERE	ABNORMAL	ABNORMAL
PQ		ASTM D8184	>200	🛑 1157	A 766	
Iron	ppm	ASTM D5185m	>250	e 2532	A 815	A 702
Chromium	ppm	ASTM D5185m	>10	• 32	9	7
Copper	ppm	ASTM D5185m	>75	🔺 119	1 82	A 276

Sample Rating Trend

Customer Id: NORDEX Sample No.: NX06026961 Lab Number: 06026961 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 <u>dougb@wearcheckusa.com</u>

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

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RECOMMENDE	DACTIONS			
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



01 May 2023 Diag: Doug Bogart

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

11 Jun 2022 Diag: Doug Bogart



No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.Generally an abnormal of wear indicated in the component. There is no indication of any contamination in the grease. The condition of the grease is acceptable for the time in service.

11 Jun 2022 Diag: Doug Bogart



No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. Generally an abnormal of wear indicated in the component. There is no indication of any contamination in the grease. The condition of the grease is acceptable for the time in service.





GREASE ANALYSIS

Sample Rating Trend

WEAR

FRONTIER II [200006776] Machine Id 54WEA86923

Component Main Grease Fluid NOT GIVEN (--- LTR)

DIAGNOSIS

Recommendation

Purge old grease immediately. We recommend an early resample to monitor this condition.

🛑 Wear

Bearing and/or bushing wear is indicated.

Grease Condition

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

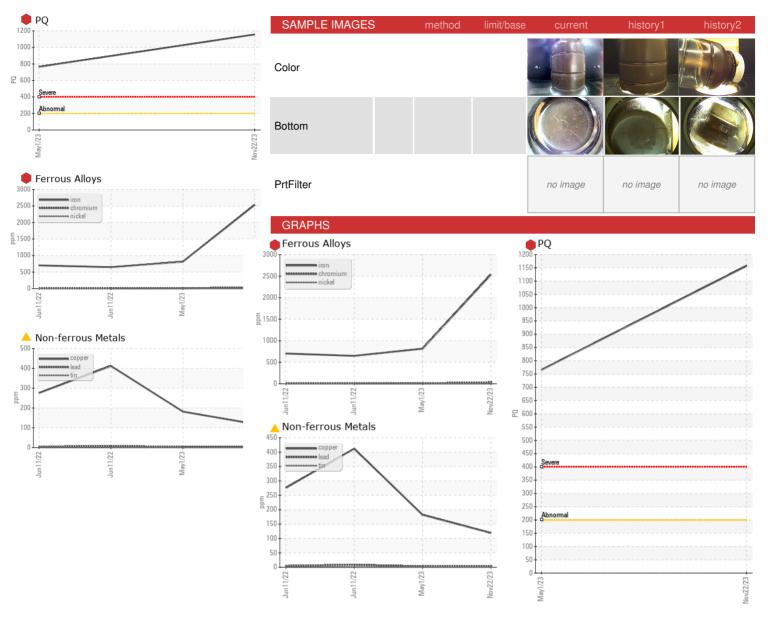
Contaminants

There is no indication of any contamination in the grease.

Sample Date Client Info 22 Nov 2023 01 May 2023 11 Jun 2022 Machine Age hrs Client Info 0 0 0 Strease Age hrs Client Info 0 0 0 Strease Serviced Client Info N/A N/A N/A ABNORMAL Sample Status method limit/base current History1 History2 Water WC Method >0.1 NEG NEG NEG VEAR METALS method limit/base current History1 History2 PQ ASTM D5185 >250 2532 & 815 ~70 Chromium ppm ASTM D5185 >5 0 0 0 Cadmium ppm ASTM D51855 2 1 <1 1 Lead ppm ASTM D51855 2 3 3 4 Copper ppm ASTM D51855 <1 <1 <1 ASTM D51855 21 <1			-				
Sample Number Client Info NX05029961 NX05383059 NX05593305 Sample Date Client Info 22 Nov 2023 01 May 2023 11 Jun 2022 Machine Age hrs Client Info 0 0 0 Grease Age hrs Client Info 0 0 0 Grease Age hrs Client Info 0 0 0 Grease Age hrs Client Info N/A N/A N/A Sample Status Imathod Imathod N/A N/A N/A CONTAMINATION method Imathod Imathod NEG NEG Water WC Method >0.1 NEG NEG NEG VEAR METALS method Imit/base current history1 history2 PQ ASTM D5165m >250 2532 A 815 702 Chromium ppm ASTM D5165m >5 0 0 0 Cadmium ppm ASTM D5165m >5 0 0 0 Cadmium ppm ASTM D5165m >5 11 1 <1 Vanadium ppm ASTM D5165m >5 11 1 1 Ca			Jun202	2 Jun2022	May2023	Nov2023	
Sample Date Client Info 22 Nov 2023 01 May 2023 11 Jun 2022 Machine Age hrs Client Info 0 0 0 Grease Age hrs Client Info 0 0 0 Srease Serviced Client Info N/A N/A N/A Sample Status Client Info N/A N/A ABNORMAL CONTAMINATION method imil/base current history1 history2 Water WC Method >0.1 NEG NEG NEG WEAR METALS method imil/base current history1 history2 PQ ASTM D5185m >250 2532 815 702 Chromium ppm ASTM D5185m >50 0 0 0 Cadmium ppm ASTM D5185m >51 11 <1 <1 Vanadium ppm ASTM D5185m >5 <1 <1 <1 Lead ppm ASTM D5185m >	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
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Grease Age hrs Client Info 0 0 0 Grease Serviced Client Info N/A N/A N/A N/A Sample Status Image: Client Info N/A N/A N/A N/A CONTAMINATION method Imit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG WEAR METALS method Imit/base current history1 history2 PQ ASTM DB184 >200 1157 766 ron ppm ASTM DB185 >5 0 0 0 Sidkel ppm ASTM DB185 >5 0 0 0 Cadmium ppm ASTM DB185 >5 0 0 0 Cadmium ppm ASTM DB185 >5 3 3 4 Copper ppm ASTM DB185 >5 <1	Sample Date		Client Info		22 Nov 2023	01 May 2023	11 Jun 2022
Brease Serviced Client Info N/A N/A N/A ABNORMAL Sample Status Client Info SEVERE ABNORMAL ABNORMAL CONTAMINATION method imit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG WEAR METALS method imit/base current history1 history2 PQ ASTM D5186m >200 1157 766 ~ ron ppm ASTM D5186m >250 2532 815 702 Chromium ppm ASTM D5186m >50 0 0 0 Cadmium ppm ASTM D5186m >55 0 0 0 Cadmium ppm ASTM D5186m >55 <11 <1 <1 ead ppm ASTM D5186m >55 <1 0 0 Gropper ppm ASTM D5186m >55 <1 0 0 Silver ppm ASTM D5186m 20 8 6 Magnessium ppm ASTM D5186m 20 8 6 Magnesium ppm ASTM D5186m 20 8 6 <th>Machine Age</th> <td>hrs</td> <td>Client Info</td> <td></td> <th>0</th> <td></td> <td></td>	Machine Age	hrs	Client Info		0		
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PQ ASTM D8184 >200 1157 A 766 ron ppm ASTM D5185m >250 2532 815 A 702 Chromium ppm ASTM D5185m >10 32 9 7 Nickel ppm ASTM D5185m <1 <1 <1 <1 Vanadium ppm ASTM D5185m <1 <1 <1 <1 Vanadium ppm ASTM D5185m 2 1 <1 <1 <1 vanadium ppm ASTM D5185m 25 3 3 4 <276 Copper ppm ASTM D5185m >5 <1 0 0 0 Silver ppm ASTM D5185m >5 <1 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 20 8 6 4 15 Phosphorus ppm ASTM D5185m 20 8 6 4 15 Sarium <th>Water</th> <th></th> <th>WC Method</th> <th>>0.1</th> <th>NEG</th> <th>NEG</th> <th>NEG</th>	Water		WC Method	>0.1	NEG	NEG	NEG
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Nickel ppm ASTM D5185m >5 0 0 0 Cadmium ppm ASTM D5185m <1	Iron	ppm	ASTM D5185m	>250	e 2532	A 815	▲ 702
Cadmium ppm ASTM D5185m <1 <1 <1 Titanium ppm ASTM D5185m 2 1 <1	Chromium	ppm	ASTM D5185m	>10	932	9	7
Titanium ppm ASTM D5185m <1 1 <1 Lead ppm ASTM D5185m 2 1 <1	Nickel	ppm	ASTM D5185m	>5	0	0	0
Vanadium ppm ASTM D5185m 2 1 <1 Lead ppm ASTM D5185m >25 3 3 4 Copper ppm ASTM D5185m >75 ▲ 119 ▲ 182 ▲ 276 Tin ppm ASTM D5185m >5 <1	Cadmium	ppm	ASTM D5185m		<1	<1	<1
Lead ppm ASTM D5185m >25 3 3 4 Copper ppm ASTM D5185m >75 ▲ 119 ▲ 182 ▲ 276 Tin ppm ASTM D5185m >5 <1	Titanium	ppm	ASTM D5185m		<1	1	<1
Copper ppm ASTM D5185m >75 ▲ 119 ▲ 182 ▲ 276 Tin ppm ASTM D5185m >5 <1	Vanadium	ppm	ASTM D5185m			1	<1
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Boron ppm ASTM D5185m 198 185 186 Magnesium ppm ASTM D5185m 0 0 0 0 Magnaese ppm ASTM D5185m 20 8 6 Molybdenum ppm ASTM D5185m 5400 5221 4135 Phosphorus ppm ASTM D5185m 1112 820 818 Zinc ppm ASTM D5185m 276 222 202 THICKENER/SOAP method limit/base current history1 history2 Aluminum ppm ASTM D5185m 0 12 15 Barium ppm ASTM D5185m 23 26 12 Sodium ppm ASTM D5185m 24 11 28 Sodium ppm ASTM D5185m 3472 3384 3112 Sulfur ppm ASTM D5185m 5150 113 91 71 Solicon ppm ASTM D5185m >150	Silver	ppm	ASTM D5185m	>5	<1	<1	<1
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ZincppmASTM D5185m276222202THICKENER/SOAPmethodlimit/basecurrenthistory1history2AluminumppmASTM D5185m01215BariumppmASTM D5185m0111411CalciumppmASTM D5185m232612SodiumppmASTM D5185m241128LithiumppmASTM D5185m347233843112SulfurppmASTM D5185m575455175570CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m1139171PotassiumppmASTM D5185m623GREASE CONDITIONmethodlimit/basecurrenthistory1history2Grease Color*VisualSrownBrownTexturein-houseButtery	Molybdenum	ppm	ASTM D5185m		5400		4135
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Barium ppm ASTM D5185m 11 14 11 Calcium ppm ASTM D5185m 23 26 12 Sodium ppm ASTM D5185m 24 11 28 Lithium ppm ASTM D5185m 3472 3384 3112 Sulfur ppm ASTM D5185m 3472 3384 3112 Sulfur ppm ASTM D5185m 5754 5517 5570 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >150 113 91 71 Potassium ppm ASTM D5185m >150 113 91 71 Grease Color *Visual Brown Brown Texture *In-house Buttery	THICKENER/SOA	۱P	method	limit/base	current	history1	history2
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Silicon ppm ASTM D5185m<>150 113 91 71 Potassium ppm ASTM D5185m 66 2 3 GREASE CONDITION method limit/base current history1 history2 Grease Color *Visual Brown Texture *In-house Buttery		ppm					
PotassiumppmASTM D5185m623GREASE CONDITIONmethodlimit/basecurrenthistory1history2Grease Color*VisualBrownTexture*1n-houseButtery	Lithium Sulfur						
GREASE CONDITION method limit/base current history1 history2 Grease Color *Visual Brown Texture *In-house Buttery	Sulfur	ppm	ASTM D5185m	limit/base	5754	5517	5570
Grease Color *Visual Brown Texture *In-house Buttery	Sulfur	ppm	ASTM D5185m method		5754 current	5517 history1	5570 history2
Texture *In-house Buttery	Sulfur CONTAMINANTS	ppm ppm	ASTM D5185m method ASTM D5185m		5754 current 113	5517 history1 91	5570 history2 71
	Sulfur CONTAMINANTS Silicon Potassium	ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	>150	5754 current 113 6	5517 history1 91 2	5570 history2 71 3
	Sulfur CONTAMINANTS Silicon Potassium	ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m method	>150	5754 current 113 6 current	5517 history1 91 2 history1	5570 history2 71 3 history2
	Sulfur CONTAMINANTS Silicon Potassium GREASE CONDI	ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m method *Visual	>150	5754 current 113 6 current	5517 history1 91 2 history1 	5570 history2 71 3 history2 Brown



GREASE ANALYSIS





Contact/Location: DEVIN LINEHAN - NORDEX