



PROBLEM SUMMARY

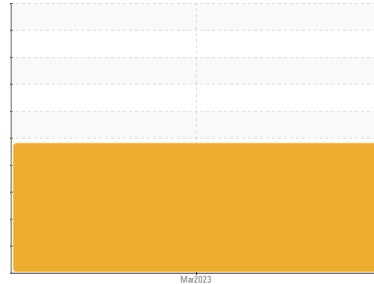
Sample Rating Trend

WEAR

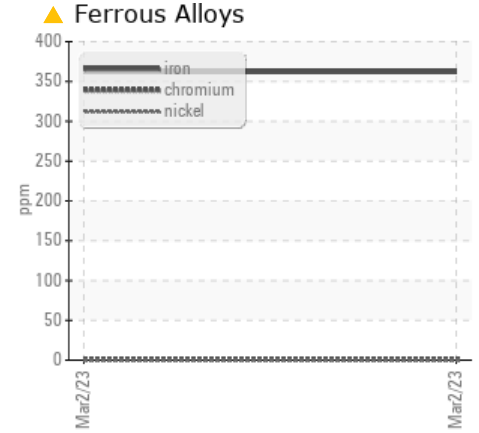
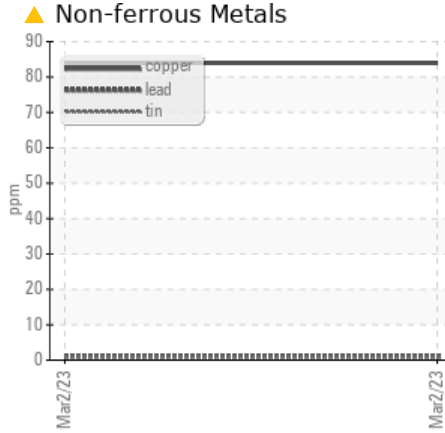
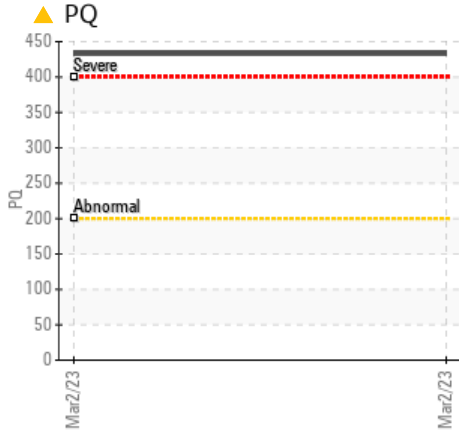


Area
HIGHLAND [700519354]
Machine Id
08WEA80831

Component
Drive End Grease
Fluid
KLUBER KLUBERPLEX BEM 41-141 (--- LTR)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

Re-sample to verify the actual oil condition. Purge old grease immediately if still abnormal and monitor the trend of iron level.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
PQ		ASTM D8184	>200	▲ 433	---	---
Iron	ppm	ASTM D5185m	>250	▲ 362	---	---
Copper	ppm	ASTM D5185m	>75	▲ 84	---	---

Customer Id: NORHIG
Sample No.: NX05788165
Lab Number: 05788165
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

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	Re-sample to verify the actual oil condition. Purge old grease immediately if still abnormal and monitor the trend of iron level.

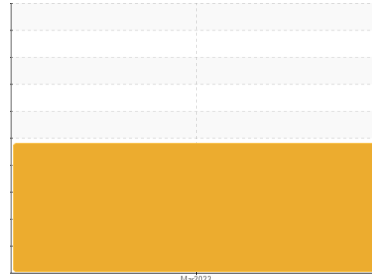
HISTORICAL DIAGNOSIS



GREASE ANALYSIS

Sample Rating Trend

WEAR



Area
HIGHLAND [700519354]
 Machine Id
08WEA80831

Component
Drive End Grease
 Fluid
KLUBER KLUBERPLEX BEM 41-141 (--- LTR)

DIAGNOSIS

▲ Recommendation

Re-sample to verify the actual oil condition. Purge old grease immediately if still abnormal and monitor the trend of iron level.

▲ Wear

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

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	NX05788165	---	---
Sample Date	Client Info	02 Mar 2023	---	---
Machine Age	mths Client Info	0	---	---
Grease Age	mths Client Info	0	---	---
Grease Serviced	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184 >200	▲ 433	---	---
Iron	ppm ASTM D5185m >250	▲ 362	---	---
Chromium	ppm ASTM D5185m >10	1	---	---
Nickel	ppm ASTM D5185m >5	0	---	---
Cadmium	ppm ASTM D5185m	1	---	---
Titanium	ppm ASTM D5185m	4	---	---
Vanadium	ppm ASTM D5185m	1	---	---
Lead	ppm ASTM D5185m >25	1	---	---
Copper	ppm ASTM D5185m >75	▲ 84	---	---
Tin	ppm ASTM D5185m >5	<1	---	---
Silver	ppm ASTM D5185m >5	<1	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	82	---	---
Magnesium	ppm ASTM D5185m	10	---	---
Manganese	ppm ASTM D5185m	3	---	---
Molybdenum	ppm ASTM D5185m	2142	---	---
Phosphorus	ppm ASTM D5185m	359	---	---
Zinc	ppm ASTM D5185m	358	---	---

THICKENER/SOAP

method	limit/base	current	history1	history2
Aluminum	ppm ASTM D5185m	6	---	---
Barium	ppm ASTM D5185m	16	---	---
Calcium	ppm ASTM D5185m	72	---	---
Sodium	ppm ASTM D5185m	86	---	---
Lithium	ppm ASTM D5185m	1445	---	---
Sulfur	ppm ASTM D5185m	2484	---	---

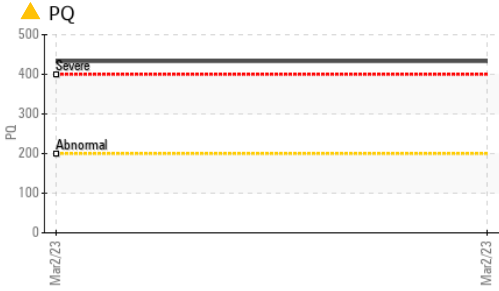
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >150	76	---	---
Potassium	ppm ASTM D5185m	25	---	---

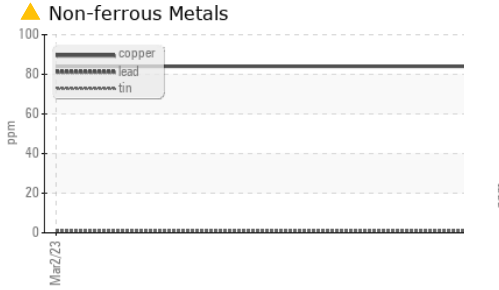
GREASE CONDITION

method	limit/base	current	history1	history2
Grease Color	*Visual yellow	Brown	---	---
Texture	*In-house	Tacky	---	---
NLGI Consistency	NLGI Scale *SKF Method 1	1-2	---	---

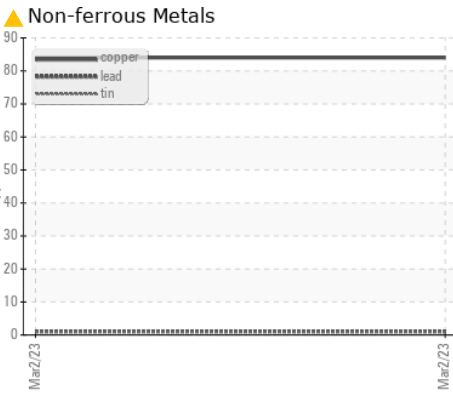
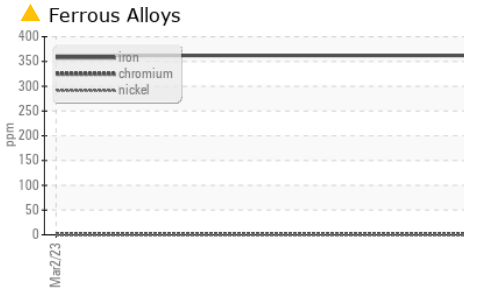
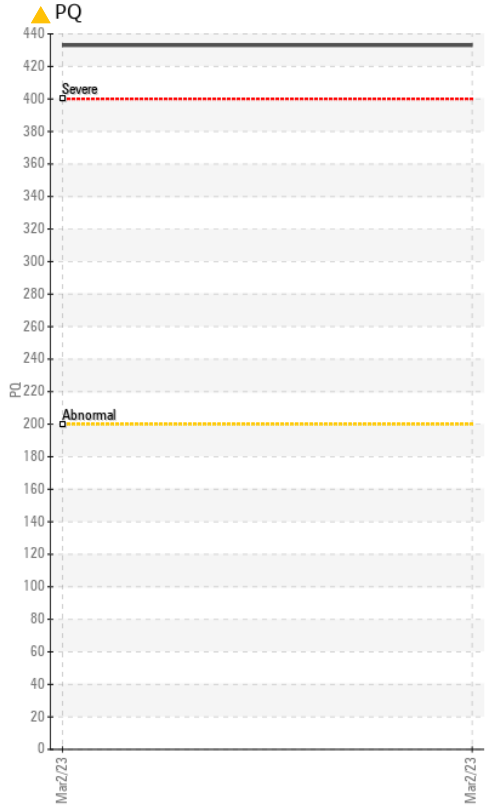
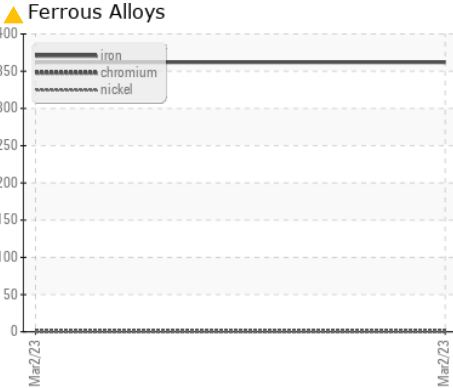
GREASE ANALYSIS



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



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513	Received : 09 Mar 2023	NORDEX USA - HIGHLAND & HIGHLAND NORTH
Sample No. : NX05788165	Diagnosed : 21 Mar 2023	300 SOUTH WACKER DRIVE, SUITE 1500
Lab Number : 05788165	Diagnostician : Doug Bogart	CHICAGO, IL
Unique Number : 10372836		US 60606
Test Package : IND 2 (Additional Tests: CONSISTENCY, GREASECOLOR, PQ, TEXTURE)		Contact: Robert Warner

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)

T: x:

F: x: