



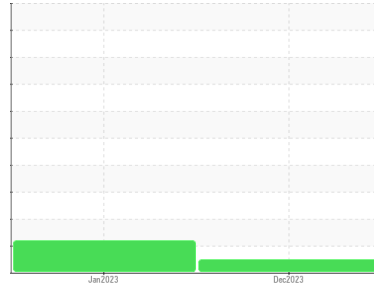
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**BLACKJACK CREEK [700007683]**  
 Machine Id  
**21WEA88408 - E-01 (S/N HR002708-10007)**  
 Component  
**Hydraulic System**  
 Fluid  
**SHELL TELLUS S2 VX 32 (--- LTR)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>NX015670</b>	NX011516	---
Sample Date	Client Info		<b>18 Dec 2023</b>	04 Jan 2023	---
Machine Age	hrs	Client Info	<b>0</b>	2600	---
Oil Age	hrs	Client Info	<b>661288</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>NORMAL</b>	ABNORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>7</b>	12	---
Iron	ppm	ASTM D5185m >20	<b>0</b>	<1	---
Chromium	ppm	ASTM D5185m >20	<b>3</b>	<1	---
Nickel	ppm	ASTM D5185m >20	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	<b>0</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >20	<b>0</b>	0	---
Lead	ppm	ASTM D5185m >20	<b>1</b>	0	---
Copper	ppm	ASTM D5185m >20	<b>10</b>	2	---
Tin	ppm	ASTM D5185m >20	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	---
Barium	ppm	ASTM D5185m	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	<b>0</b>	0	---
Magnesium	ppm	ASTM D5185m	<b>0</b>	<1	---
Calcium	ppm	ASTM D5185m	<b>21</b>	37	---
Phosphorus	ppm	ASTM D5185m	<b>231</b>	269	---
Zinc	ppm	ASTM D5185m	<b>307</b>	326	---
Sulfur	ppm	ASTM D5185m	<b>878</b>	883	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>0</b>	0	---
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Potassium	ppm	ASTM D5185m >20	<b>0</b>	<1	---
Water	%	ASTM D6304 >0.05	<b>0.005</b>	0.006	---
ppm Water	ppm	ASTM D6304 >500	<b>53</b>	69.6	---

## FLUID CLEANLINESS

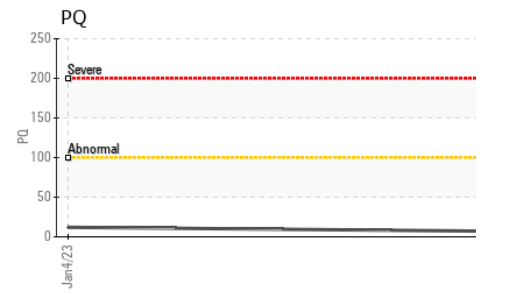
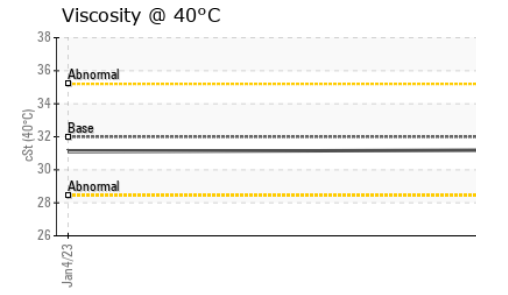
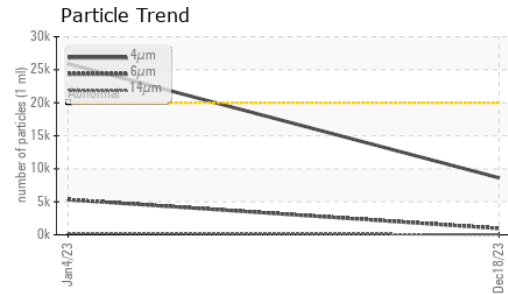
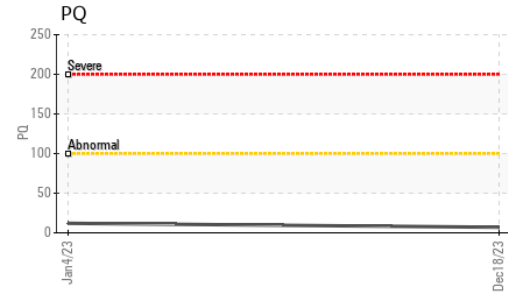
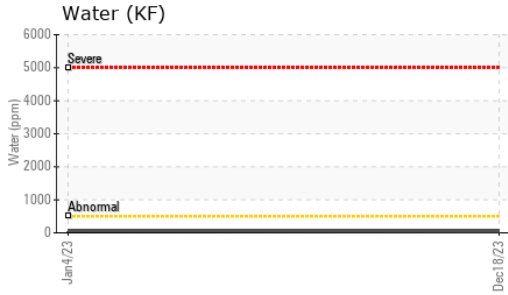
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>8629</b>	▲ 25909	---
Particles >6µm	ASTM D7647	>2500	<b>974</b>	▲ 5322	---
Particles >14µm	ASTM D7647	>320	<b>36</b>	248	---
Particles >21µm	ASTM D7647	>80	<b>6</b>	31	---
Particles >38µm	ASTM D7647	>20	<b>0</b>	1	---
Particles >71µm	ASTM D7647	>4	<b>0</b>	1	---
Oil Cleanliness	ISO 4406 (c)	>21/18/15	<b>20/17/12</b>	▲ 22/20/15	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.30</b>	0.30	---



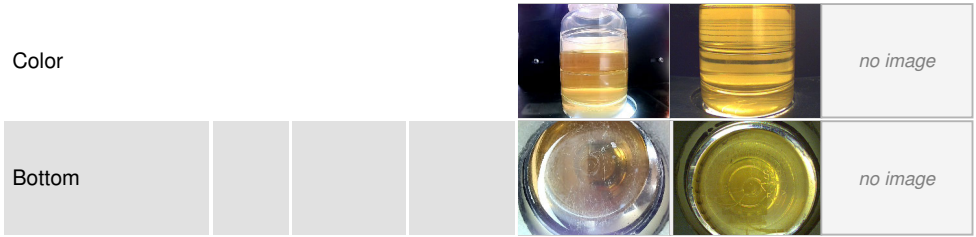
# OIL ANALYSIS REPORT



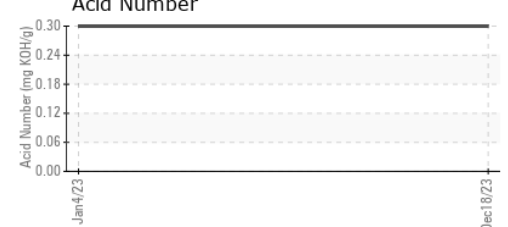
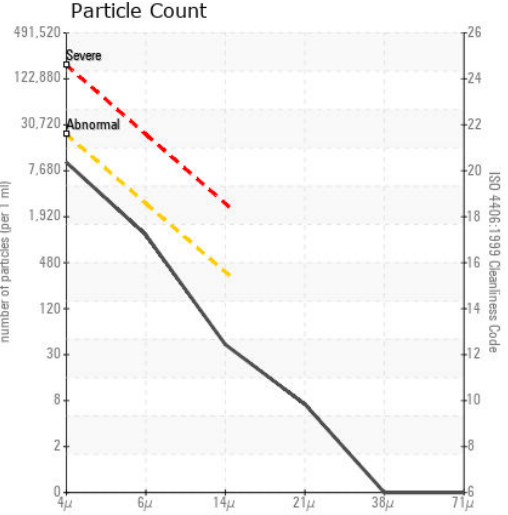
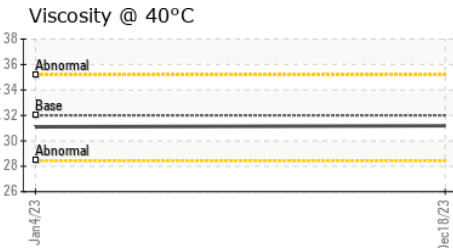
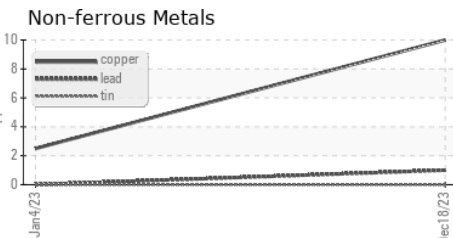
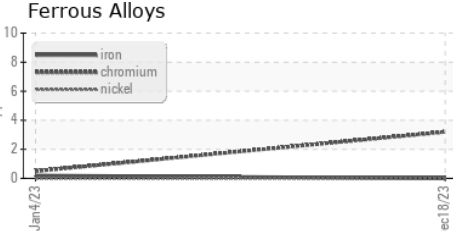
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	31.1	---

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : NX015670 **Received** : 30 Jan 2024  
**Lab Number** : 06073858 **Diagnosed** : 02 Feb 2024  
**Unique Number** : 10855949 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, PQ )

**NORDEX USA - Chicago**  
 300 SOUTH WACKER DRIVE, SUITE 1500  
 CHICAGO, IL  
 US 60606  
 Contact: DEVIN LINEHAN  
 DLinehan@nordex-online.com  
 T: (312)386-4124  
 F: (312)386-7102

Certificate L2367  
 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)