



PROBLEM SUMMARY

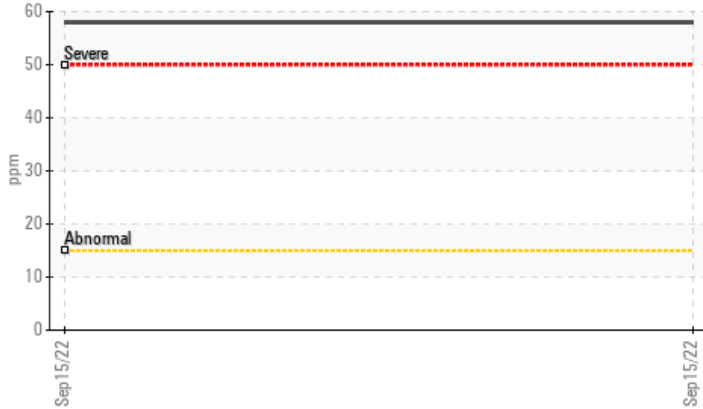
Area
BLACKJACK CREEK
 Machine Id
WEA88415 - C-02 (S/N HR002708-10008)
 Component
Hydraulic System
 Fluid
SHELL TELLUS S2 VX 32 (--- LTR)

Sample Rating Trend



COMPONENT CONDITION SUMMARY

▲ Silicon (ppm)



RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Silicon	ppm	ASTM D5185m	>15	▲ 58	---	---

Customer Id: NORDEX
 Sample No.: NX011532
 Lab Number: 05744635
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.
Check Dirt Access	---	---	?	We advise that you check the air filter, air induction system, and any areas where dirt may enter the component.

HISTORICAL DIAGNOSIS

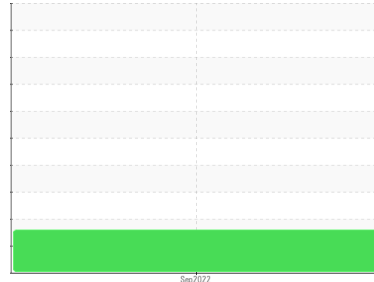


OIL ANALYSIS REPORT

Sample Rating Trend

DIRT

Area
BLACKJACK CREEK
 Machine Id
WEA88415 - C-02 (S/N HR002708-10008)
 Component
Hydraulic System
 Fluid
SHELL TELLUS S2 VX 32 (--- LTR)



DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material. 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	history 1	history 2
Sample Number	Client Info	NX011532	---	---
Sample Date	Client Info	15 Sep 2022	---	---
Machine Age	hrs Client Info	1607	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history 1	history 2
PQ	ASTM D8184	4	---	---
Iron	ppm ASTM D5185m >20	0	---	---
Chromium	ppm ASTM D5185m >20	0	---	---
Nickel	ppm ASTM D5185m >20	0	---	---
Titanium	ppm ASTM D5185m	0	---	---
Silver	ppm ASTM D5185m	0	---	---
Aluminum	ppm ASTM D5185m >20	0	---	---
Lead	ppm ASTM D5185m >20	0	---	---
Copper	ppm ASTM D5185m >20	2	---	---
Tin	ppm ASTM D5185m >20	0	---	---
Vanadium	ppm ASTM D5185m	0	---	---
Cadmium	ppm ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m	0	---	---
Barium	ppm ASTM D5185m	0	---	---
Molybdenum	ppm ASTM D5185m	0	---	---
Manganese	ppm ASTM D5185m	0	---	---
Magnesium	ppm ASTM D5185m	<1	---	---
Calcium	ppm ASTM D5185m	38	---	---
Phosphorus	ppm ASTM D5185m	277	---	---
Zinc	ppm ASTM D5185m	336	---	---
Sulfur	ppm ASTM D5185m	887	---	---

CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m >15	▲ 58	---	---
Sodium	ppm ASTM D5185m	0	---	---
Potassium	ppm ASTM D5185m >20	<1	---	---
Water	% ASTM D6304 >0.05	0.005	---	---
ppm Water	ppm ASTM D6304 >500	56.1	---	---

FLUID CLEANLINESS

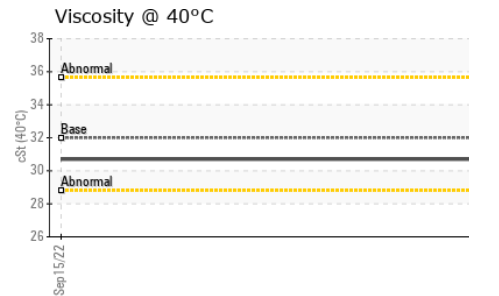
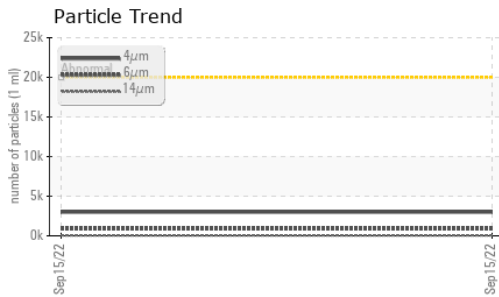
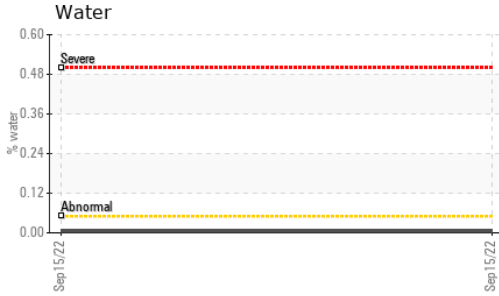
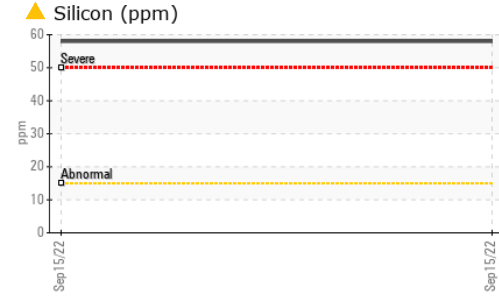
method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647 >20000	3002	---	---
Particles >6µm	ASTM D7647 >2500	883	---	---
Particles >14µm	ASTM D7647 >320	53	---	---
Particles >21µm	ASTM D7647 >80	7	---	---
Particles >38µm	ASTM D7647 >20	0	---	---
Particles >71µm	ASTM D7647 >4	0	---	---
Oil Cleanliness	ISO 4406 (c) >21/18/15	19/17/13	---	---

FLUID DEGRADATION

method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	0.32	---	---



OIL ANALYSIS REPORT

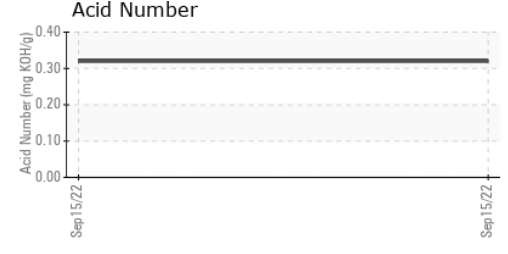
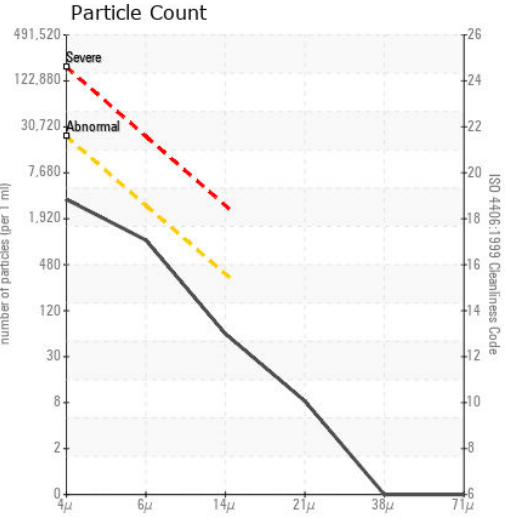
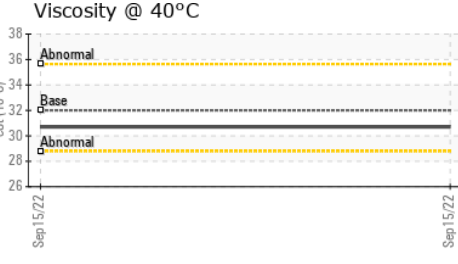
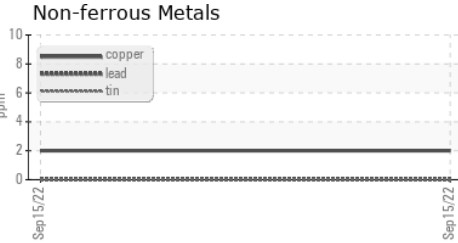
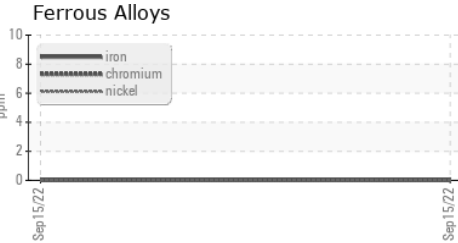


VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	32	30.7	---

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : NX011532 **Received** : 20 Jan 2023
Lab Number : 05744635 **Diagnosed** : 23 Jan 2023
Unique Number : 10299234 **Diagnostician** : Don Baldrige
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)