



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**EL SAUZ [US-SAUZ-01-US-5]**  
 Machine Id  
**E05-WEA90043 (S/N GME004427A-36)**  
 Component  
**Hydraulic System**  
 Fluid  
**SHELL TELLUS S2 VX 32 (500 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>NX014520</b>	---	---
Sample Date	Client Info	<b>09 Aug 2023</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

## WEAR METALS

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

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	<b>0</b>	---	---
Barium	ppm ASTM D5185m	<b>2</b>	---	---
Molybdenum	ppm ASTM D5185m	<b>0</b>	---	---
Manganese	ppm ASTM D5185m	<b>0</b>	---	---
Magnesium	ppm ASTM D5185m	<b>47</b>	---	---
Calcium	ppm ASTM D5185m	<b>13</b>	---	---
Phosphorus	ppm ASTM D5185m	<b>285</b>	---	---
Zinc	ppm ASTM D5185m	<b>327</b>	---	---
Sulfur	ppm ASTM D5185m	<b>599</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >15	<b>4</b>	---	---
Sodium	ppm ASTM D5185m	<b>0</b>	---	---
Potassium	ppm ASTM D5185m >20	<b>&lt;1</b>	---	---
Water	% ASTM D6304 >0.05	<b>0.003</b>	---	---
ppm Water	ppm ASTM D6304 >500	<b>31.6</b>	---	---

## FLUID CLEANLINESS

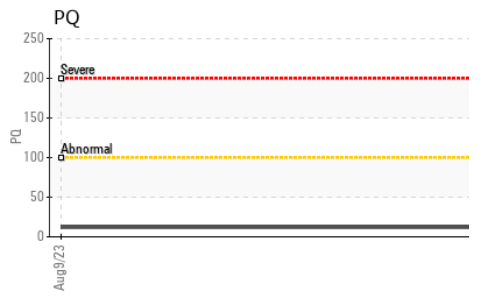
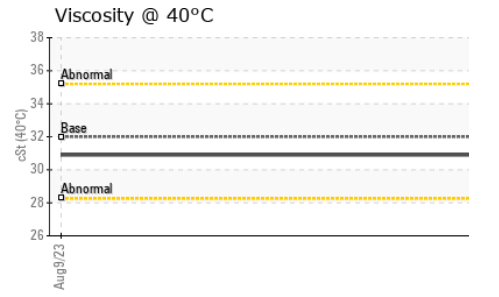
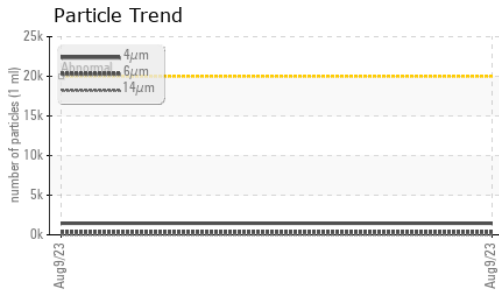
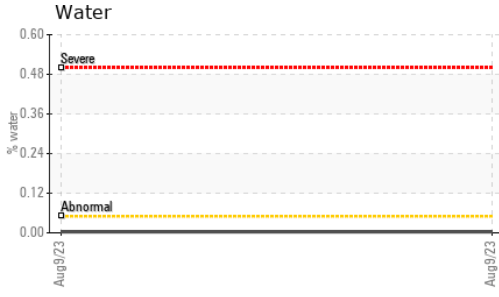
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >20000	<b>1451</b>	---	---
Particles >6µm	ASTM D7647 >2500	<b>366</b>	---	---
Particles >14µm	ASTM D7647 >320	<b>26</b>	---	---
Particles >21µm	ASTM D7647 >80	<b>5</b>	---	---
Particles >38µm	ASTM D7647 >20	<b>0</b>	---	---
Particles >71µm	ASTM D7647 >4	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c) >21/18/15	<b>18/16/12</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045	<b>0.32</b>	---	---



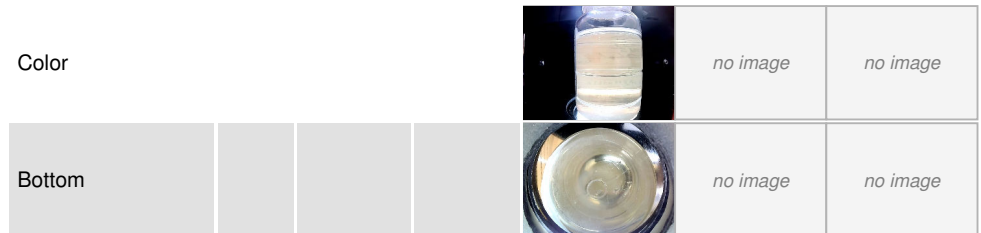
# OIL ANALYSIS REPORT



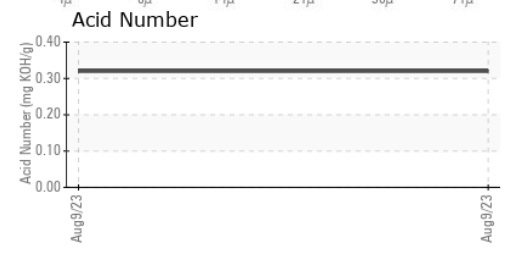
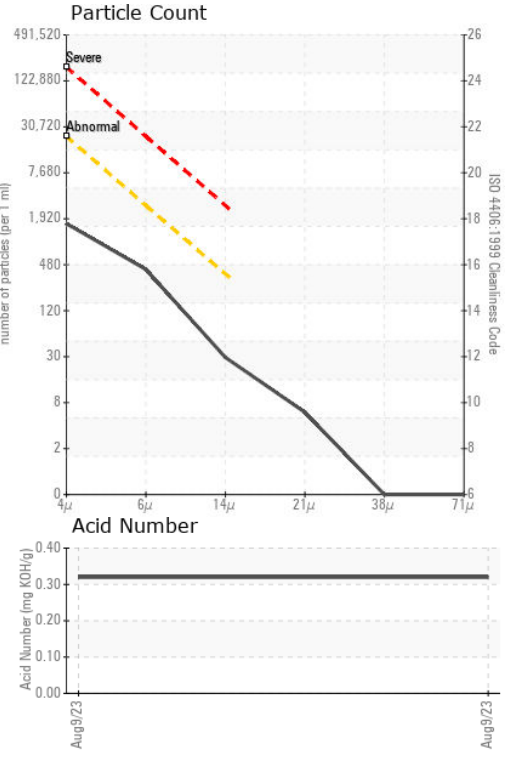
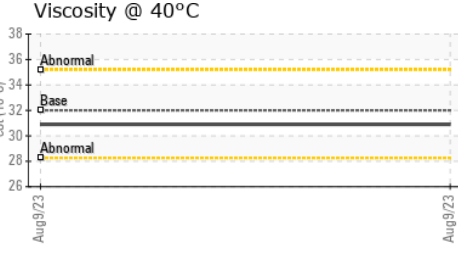
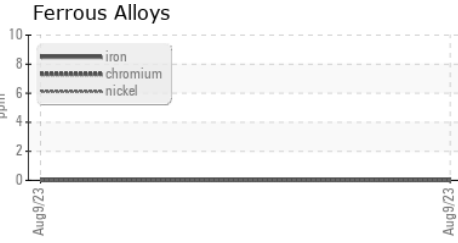
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	30.9	---

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : NX014520 **Received** : 24 Aug 2023  
**Lab Number** : 05933512 **Diagnosed** : 28 Aug 2023  
**Unique Number** : 10618783 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, PQ )

**NORDEX USA - Chicago**  
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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)