

5k

0k

Dec17/2

Sep10/23

# RECOMMENDATION

Dec17/2

Abnormal

30

28 26

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ATTENTION	ATTENTION	NORMAL		
Particles >6µm		ASTM D7647	>2500	<b>A</b> 3794	<b>2607</b>	219		
Oil Cleanliness		ISO 4406 (c)	>21/18/15	<u> </u>	🔺 20/19/15	17/15/12		
Visc @ 40°C	cSt	ASTM D445	33.8	<b>40.49</b>	31.0	31.1		

Sep29/22

Customer Id: NORDEX Sample No.: NX05999816 Lab Number: 05999816 Test Package: IND 2



Sep29/22

To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com Sep 10/23

# **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

# HISTORICAL DIAGNOSIS

# 29 Sep 2022 Diag: Angela Borella



No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 17 Dec 2021 Diag: Angela Borella



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**

#### Area **RIPPEY** [200005325] Machine Id **82220 SITE 18** Component

Hydraulic System Fluid SHELL TELLUS S4 VX 32 (60 LTR)

# DIAGNOSIS

# A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

# Wear

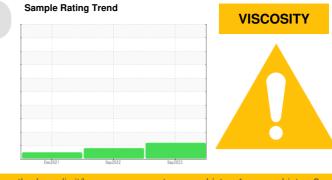
All component wear rates are normal.

# Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

## Fluid Condition

Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX05999816	NX05672218	NX05440132
Sample Date		Client Info		10 Sep 2023	29 Sep 2022	17 Dec 2021
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		13	7	21
Iron	ppm	ASTM D5185m	>20	1	2	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	0	0	<1
Lead	ppm	ASTM D5185m	>20	<1	1	1
Copper	ppm	ASTM D5185m	>20	0	<1	<1
Tin	ppm	ASTM D5185m	>20	1	1	1
Antimony	ppm	ASTM D5185m				<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		2	0	<1
Phosphorus	ppm	ASTM D5185m		552	596	603
Zinc	ppm	ASTM D5185m		166	115	101
Sulfur	ppm	ASTM D5185m		648	540	515
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	6	3	2
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.05	0.011	0.010	0.003
ppm Water	ppm	ASTM D6304	>500	113.7	105.3	25.8
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	13773	7121	728
Particles >6µm		ASTM D7647		<b>A</b> 3794	▲ 2607	219
Particles >14μm		ASTM D7647	>320	201	259	23
Particles >21µm		ASTM D7647	>80	38	51	6
Particles >38μm		ASTM D7647	>20	1	2	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/18/15	<b>A</b> 21/19/15	▲ 20/19/15	17/15/12



🔺 Particle Trend

14µm

Sep29/22

Sep 29/22

25 Ê 20

number of particles ()

0

Dec1

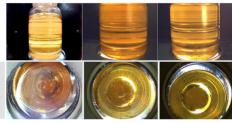
Dec1

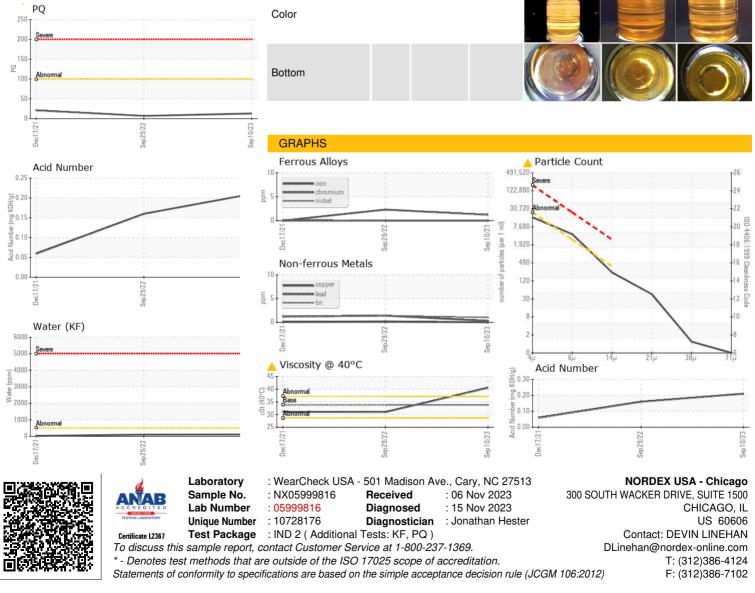
Water (KF)

# **OIL ANALYSIS REPORT**

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.21	0.16	0.059
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	<b>FIES</b>	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	33.8	40.49	31.0	31.1
SAMPLE IMAGES		method	limit/base	current	history1	history2
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Contact/Location: DEVIN LINEHAN - NORDEX