

## **OIL ANALYSIS REPORT**

## Area **ROTH ROCK [200005321]** Machine Id **O6WEA**81554

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

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

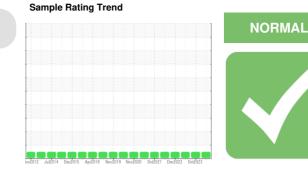
All component wear rates are normal.

#### Contamination

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

### **Fluid Condition**

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



SAMPLE INFORM	<b>/IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		NX016945	NX013872	NX012210
Sample Date		Client Info		25 Apr 2024	18 Oct 2023	24 Mar 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		16	16	13
Iron	ppm	ASTM D5185m	>20	8	3	7
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	<1
Lead	ppm	ASTM D5185m	>20	<1	0	<1
Copper	ppm	ASTM D5185m	>20	<1	1	<1
Tin	ppm	ASTM D5185m	>20	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		0	0	9
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		522	505	522
Zinc	ppm	ASTM D5185m		91	109	120
Sulfur	ppm	ASTM D5185m		1116	946	999
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	4	5	4
Sodium	ppm	ASTM D5185m		0	2	1
Potassium	ppm	ASTM D5185m	>20	0	0	1
Water	%	ASTM D6304	>0.05	0.010	0.006	0.007
ppm Water	ppm	ASTM D6304	>500	103	68	73.1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	977	584	1408
Particles >6µm		ASTM D7647	>2500	139	152	293
Particles >14µm		ASTM D7647	>320	10	16	22
Particles >21µm		ASTM D7647	>80	4	3	6
Particles >38µm		ASTM D7647	>20	1	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/18/15	17/14/10	16/14/11	18/15/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	ma KOH/a			0.21	0.18	0.23

Acid Number (AN) mg KOH/g ASTM D8045

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08045 **0.21** 

0.21 0.18 0.23 Contact/Location: ADAY MAGEC - NORROT



6000

5000

(mdd) 3000

2000 Mater

1000

250

200

25

Ê 20

) sapticles ( 10k

Ok

40 38

36

(J-04) 32

30

26

200

150

100

50

0

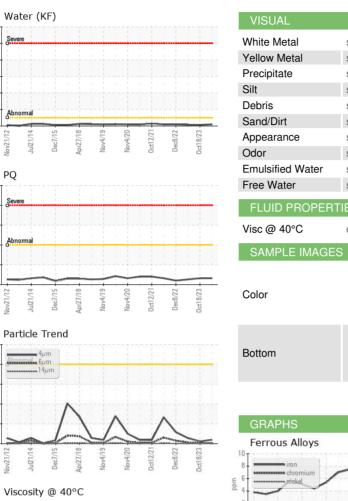
Vov21/12

PQ

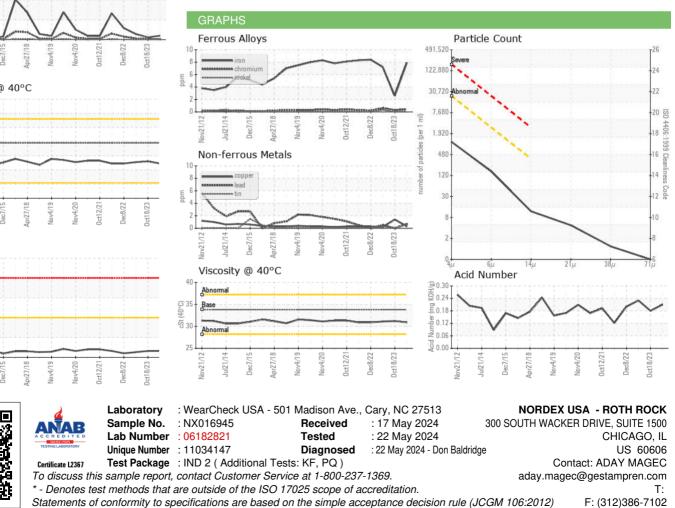
28 Abnorma

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/ISUAL		method	limit/base	current	history1	history2
hite Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ecipitate	scalar	*Visual	NONE	NONE	NONE	NONE
lt	scalar	*Visual	NONE	NONE	NONE	NONE
ebris	scalar	*Visual	NONE	NONE	NONE	NONE
and/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
pearance	scalar	*Visual	NORML	NORML	NORML	NORML
dor	scalar	*Visual	NORML	NORML	NORML	NORML
nulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
ee Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
sc @ 40°C	cSt	ASTM D445	33.8	30.9	31.2	31.1
SAMPLE IMAGES		method	limit/base	current	history1	history2
blor					.0.	



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