

OIL ANALYSIS REPORT

Area **ROTH ROCK [200005321]** 20WEA81564

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

Recommendation

Resample at the next service interval to monitor.

Wear

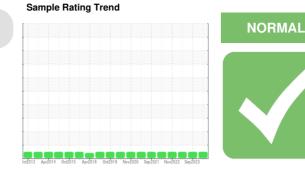
All component wear rates are normal.

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	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX016989	NX013880	NX012179
Sample Date		Client Info		09 Apr 2024	29 Sep 2023	11 May 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	13	12
Iron	ppm	ASTM D5185m	>20	6	0	4
Chromium	ppm	ASTM D5185m	>20	<1	0	<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	0
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	8
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		604	580	574
Zinc	ppm	ASTM D5185m		17	31	46
Sulfur	ppm	ASTM D5185m		694	596	531
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Sodium	ppm	ASTM D5185m		0	2	<1
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.05	0.010	0.012	0.007
ppm Water	ppm	ASTM D6304	>500	102	129	74.8
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	1013	3831	4875
Particles >6µm		ASTM D7647	>2500	104	260	280
Particles >14µm		ASTM D7647	>320	8	22	14
Particles >21µm		ASTM D7647	>80	2	8	2
Particles >38µm		ASTM D7647	>20	0	1	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/18/15	17/14/10	19/15/12	19/15/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.15	0.14	0.09

Acid Number (AN) mg KOH/g ASTM D8045

Report Id: NORROT [WUSCAR] 06182809 (Generated: 05/22/2024 16:12:34) Rev: 1

0.15 0.14 0.09 Contact/Location: ADAY MAGEC - NORROT



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OIL ANALYSIS REPORT

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ASTM D445

NONE

NONE

NONE

NONE

NONE

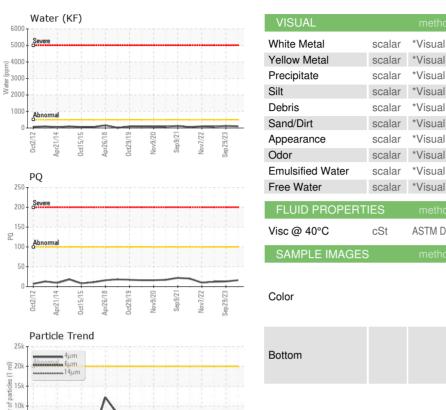
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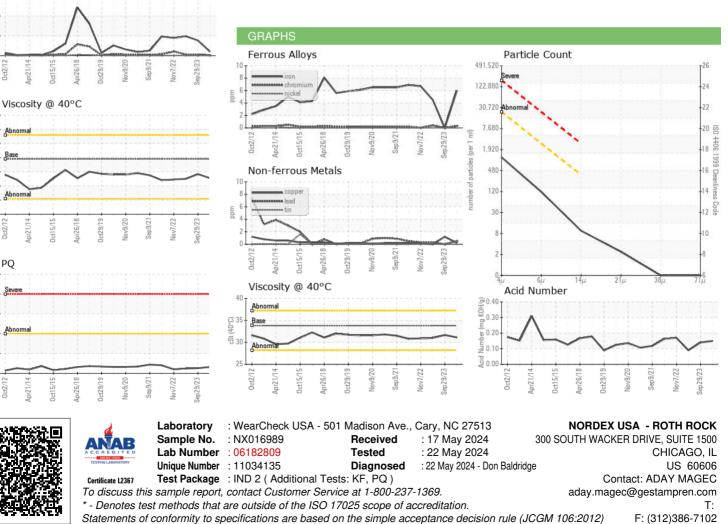
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>0.05

33.8





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Contact/Location: ADAY MAGEC - NORROT

NONE

NONE

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NORML

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