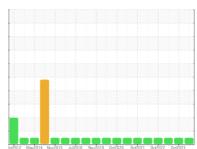


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



# **ROTH ROCK [200005321]** 12WEA81563

Hydraulic System

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	ΙΔΤΙΩΝ	method	limit/base	current	history1	history2
	WITTON	Client Info	IIIIIIIIII	NX016953	NX013875	NX012198
Sample Number Sample Date		Client Info		19 Apr 2024	19 Oct 2023	24 Apr 2023
Machine Age	hrs	Client Info		0 Apr 2024	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed	1113	Client Info		N/A	N/A	N/A
Sample Status		Client inio		NORMAL	NORMAL	NORMAL
			lineit/lenene			
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		14	16	17
Iron	ppm	ASTM D5185m		8	2	12
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	0	0	<1
Lead	ppm	ASTM D5185m		0	0	0
Copper	ppm	ASTM D5185m	>20	<1	1	<1
Tin	ppm	ASTM D5185m	>20	<1	0	0
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		557	550	528
Zinc	ppm	ASTM D5185m		64	81	88
Sulfur	ppm	ASTM D5185m		910	882	747
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	2	3
Sodium	ppm	ASTM D5185m		0	1	1
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.05	0.009	0.010	0.012
ppm Water	ppm	ASTM D6304	>500	93	107	120.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	1258	978	1588
Particles >6µm		ASTM D7647	>2500	152	223	263
Particles >14µm		ASTM D7647	>320	18	17	17
Particles >21µm		ASTM D7647	>80	6	6	3
Particles >38μm		ASTM D7647	>20	1	1	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/18/15	17/14/11	17/15/11	18/15/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2



# **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory

Sample No. Lab Number

: NX016953 : 06182813 Unique Number : 11034139

Received **Tested** 

Diagnosed Test Package : IND 2 (Additional Tests: KF, PQ)

: 17 May 2024 : 22 May 2024

: 22 May 2024 - Don Baldridge

CHICAGO, IL US 60606 Contact: ADAY MAGEC aday.magec@gestampren.com

300 SOUTH WACKER DRIVE, SUITE 1500

To discuss this sample report, contact Customer Service at 1-800-237-1369.  $^st$  - 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)

F: (312)386-7102 Contact/Location: ADAY MAGEC - NORROT

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