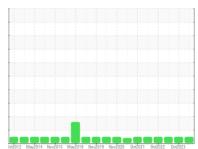


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



ROTH ROCK [200005321] 15WEA81560

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	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX016959	NX013881	NX012926
Sample Date		Client Info		17 Apr 2024	24 Oct 2023	26 Apr 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		12	18	13
Iron	ppm	ASTM D5185m	>20	2	0	2
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	2
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	9
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		620	607	605
Zinc	ppm	ASTM D5185m		64	78	85
Sulfur	ppm	ASTM D5185m		627	563	498
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	1	2
Sodium	ppm	ASTM D5185m		0	1	<1
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.05	0.009	0.007	0.008
ppm Water	ppm	ASTM D6304	>500	92	78	85.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	1044	5608	730
Particles >6µm		ASTM D7647	>2500	116	810	141
Particles >14μm		ASTM D7647	>320	7	33	12
Particles >21µm		ASTM D7647	>80	3	12	3
Particles >38μm		ASTM D7647	>20	0	1	0
Particles >71μm		ASTM D7647	>4	0	1	0
Oil Cleanliness		ISO 4406 (c)	>21/18/15	17/14/10	20/17/12	17/14/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No. Lab Number

: NX016959 : 06182816 Unique Number : 11034142

Received **Tested**

: 17 May 2024 : 22 May 2024 Diagnosed Test Package : IND 2 (Additional Tests: KF, PQ)

: 22 May 2024 - Don Baldridge

300 SOUTH WACKER DRIVE, SUITE 1500 CHICAGO, IL US 60606

Contact: ADAY MAGEC aday.magec@gestampren.com T:

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