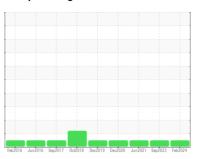


OIL ANALYSIS REPORT

THUNDER SPIRIT [200005313] 37WEA84033 (S/N 51295)

Hydraulic System

SHELL TELLUS S4 VX 32 (--- QTS)



Sample Rating Trend



Recommendation

Resample at the next service interval to monitor.

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.

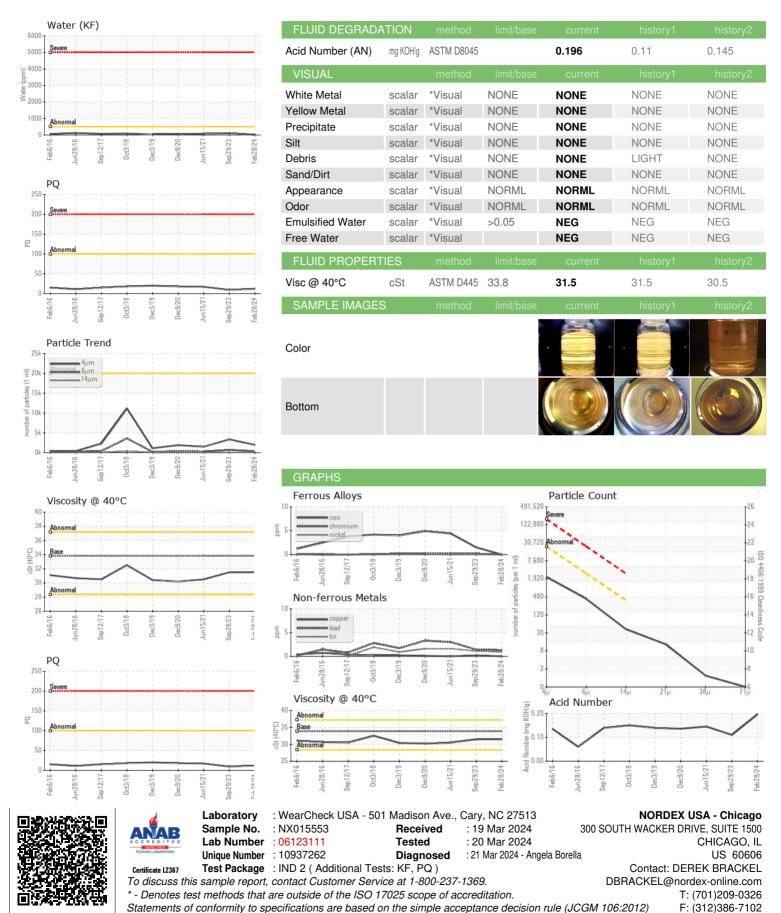
Fluid Condition

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

OAMBLE WEST	ATION	1002010 001	·	Dec2019 Dec2020 Jun2021 Sep20		11
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX015553	NX013647	NX004852
Sample Date		Client Info		28 Feb 2024	29 Sep 2023	15 Jun 2021
Machine Age	hrs	Client Info		70674	0	39631
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	9	17
Iron	ppm	ASTM D5185m	>20	0	2	4
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>20	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	1	0
Lead	ppm	ASTM D5185m	>20	1	1	3
Copper	ppm	ASTM D5185m	>20	0	<1	0
Tin	ppm	ASTM D5185m	>20	<1	1	2
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		554	557	547
Zinc	ppm	ASTM D5185m		57	51	78
Sulfur	ppm	ASTM D5185m		716	710	860
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	2	2
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	0	2	0
Water	%	ASTM D6304	>0.05	0.001	0.011	0.007
ppm Water	ppm	ASTM D6304	>500	15	110.1	77.7
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	1920	3352	1471
Particles >6µm		ASTM D7647	>2500	359	661	278
Particles >14µm		ASTM D7647	>320	35	34	22
Particles >21µm		ASTM D7647	>80	11	7	5
Particles >38µm		ASTM D7647	>20	1	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/18/15	18/16/12	19/17/12	18/15/12
		. /				



OIL ANALYSIS REPORT



Contact/Location: DEREK BRACKEL - NORDEX