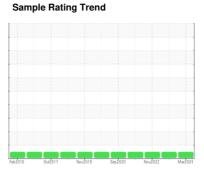


OIL ANALYSIS REPORT

THUNDER SPIRIT [200009532] 25WEA84002 (S/N 45432)

Hydraulic System

SHELL TELLUS S4 VX 32 (--- QTS)





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 oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

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

SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX015568	NX014800	NX011664
Sample Date		Client Info		20 Mar 2024	19 Oct 2023	29 Nov 2022
Machine Age	hrs	Client Info		58277	55243	49618
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		11	9	12
Iron	ppm	ASTM D5185m	>20	2	0	2
Chromium	ppm	ASTM D5185m	>20	<1	0	0
	ppm	ASTM D5185m	>20	<1	<1	0
	ppm	ASTM D5185m		<1	0	0
	ppm	ASTM D5185m		0	0	0
	ppm	ASTM D5185m	>20	2	<1	<1
	ppm	ASTM D5185m	>20	3	2	2
_	ppm	ASTM D5185m	>20	1	0	<1
	ppm	ASTM D5185m	>20	2	1	1
	ppm	ASTM D5185m	7 = 0			
	ppm	ASTM D5185m		<1	0	0
	ppm	ASTM D5185m		<1	0	0
	ррііі					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		1	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		<1	<1	2
Calcium	ppm	ASTM D5185m		4	2	2
Phosphorus	ppm	ASTM D5185m		639	606	595
Zinc	ppm	ASTM D5185m		89	76	107
Sulfur	ppm	ASTM D5185m		539	557	509
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	2	2
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	2	1	0
Water	%	ASTM D6304	>0.05	0.004	0.004	0.003
ppm Water	ppm	ASTM D6304	>500	43	49	37.1
FLUID CLEANLINE	SS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	813	1127	2187
Particles >6µm		ASTM D7647	>2500	151	185	374
Particles >14µm		ASTM D7647	>320	11	10	20
Particles >21µm		ASTM D7647		2	2	3
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/18/15	17/14/11	17/15/10	18/16/11
On Oleaninless		100 4400 (0)	/41/10/13	17/14/11	17/13/10	10/10/11



OIL ANALYSIS REPORT







Certificate 12367

Report Id: NORDEX [WUSCAR] 06135634 (Generated: 04/04/2024 21:35:20) Rev: 1

Sample No.

: NX015568 Lab Number : 06135634 Unique Number: 10955099

Received **Tested**

: 01 Apr 2024 : 04 Apr 2024 Diagnosed

: 04 Apr 2024 - Don Baldridge

300 SOUTH WACKER DRIVE, SUITE 1500 CHICAGO, IL US 60606 Contact: DEVIN LINEHAN

Test Package : IND 2 (Additional Tests: KF, PQ) To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

DLinehan@nordex-online.com T: (312)386-4124 F: (312)386-7102

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: DEVIN LINEHAN - NORDEX