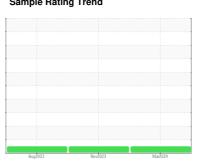


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



STARLINE SL-5104-4B 2 (S/N 8109)

Hydraulic System

{not provided} (--- GAL)

DIAGNOSIS

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.

		Aug	2023	Nov2023 Mar20	124	
SAMPLE INFORM	IATION	method				history2
Sample Number		Client Info		PH0002425	PH0002443	PH0001824
Sample Date		Client Info		21 Mar 2024	14 Nov 2023	28 Aug 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
CONTAMINATION	1	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/hase	current	history1	history2

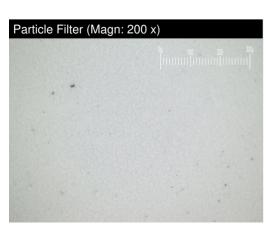
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	0	0	<1
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2

ADDITIVES		method			history2
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	0	0	2
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	0	0	0
Magnesium	ppm	ASTM D5185m	0	0	0
Calcium	ppm	ASTM D5185m	0	0	0
Phosphorus	ppm	ASTM D5185m	350	374	448
Zinc	ppm	ASTM D5185m	0	0	3
Sulfur	ppm	ASTM D5185m	66	104	110
001174141144170					

CONTAMINANT	S	method				history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	1
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	9903	649	3261
Particles >6μm		ASTM D7647	>2500	885	106	236
Particles >14μm		ASTM D7647	>320	25	9	37
Particles >21µm		ASTM D7647	>80	5	1	13

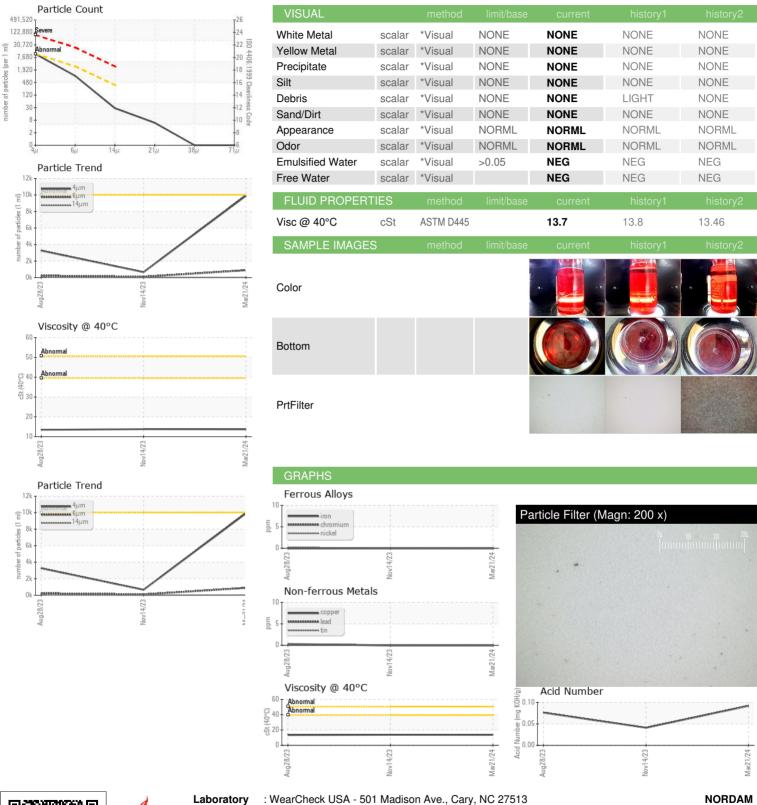
FLUID DEGRADATION	V method				history2
Oil Cleanliness	ISO 4406 (c)	>20/18/15	20/17/12	17/14/10	19/15/12
Particles >71µm	ASTM D7647	>4	0	0	0
Particles >38μm	ASTM D7647	>20	0	0	1
Particles >21μm	ASTM D7647	>80	5	1	13
Particles >14μm	ASTM D7647	>320	25	9	37
Particles >6µm	ASTM D7647	>2500	885	106	236

Acid Number (AN) mg KOH/g ASTM D8045 0.092 0.041 0.076 Contact/Location: KURT BODENHAMER - NORTULOK





OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number : 06125301

: PH0002425

Received **Tested** Unique Number: 10939452 Diagnosed : 21 Mar 2024

: 27 Mar 2024

: 27 Mar 2024 - Jonathan Hester

Test Package: PLANT (Additional Tests: PrtFilter)

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

Contact/Location: KURT BODENHAMER - NORTULOK

TULSA, OK

US 74117

F:

T: (918)401-5219

6911 WHILPOOL DR

Contact: KURT BODENHAMER

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