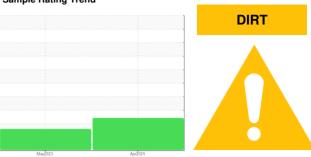


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

LC-39A HANGAR HPU - H

Component Hydraulic System

{not provided} (5000 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. Elemental level of silicon (Si) above normal.

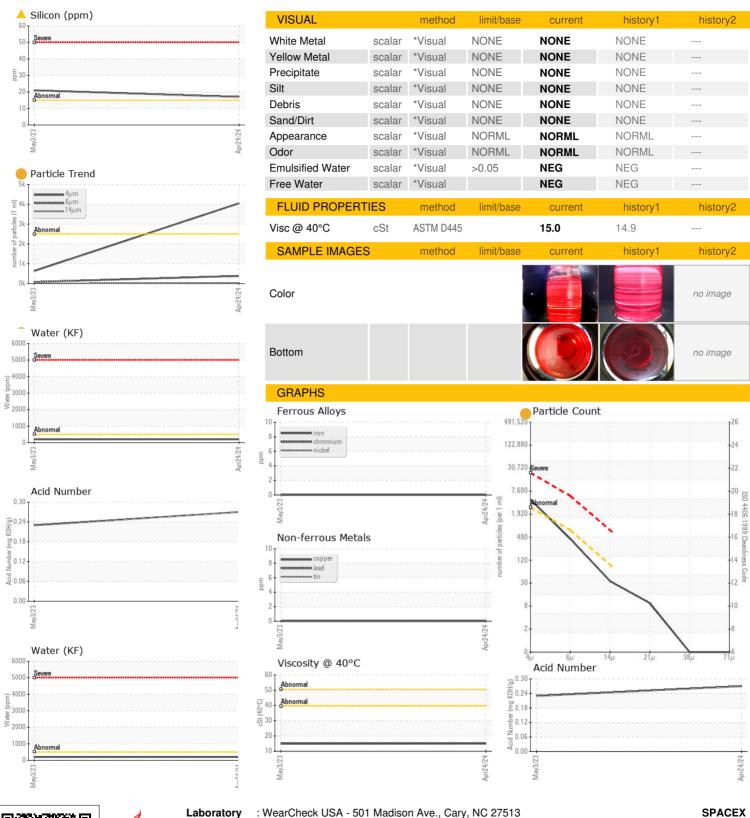
Fluid Condition

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

		L	May2023	Apr2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ST44773	ST44769	
Sample Date		Client Info		24 Apr 2024	03 May 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	
Chromium	ppm	ASTM D5185m	>20	0	0	
Nickel	ppm	ASTM D5185m	>20	0	0	
Titanium	ppm	ASTM D5185m	7 2 3	0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>20	0	0	
Lead	ppm	ASTM D5185m	>20	0	0	
		ASTM D5185m		0	0	
Copper Tin	ppm	ASTM D5185m	>20	0	0	
Vanadium	ppm	ASTM D5185m	>20	0	0	
	ppm			-		
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m		<1	<1	
Calcium	ppm	ASTM D5185m		0	0	
Phosphorus	ppm	ASTM D5185m		14	14	
Zinc	ppm	ASTM D5185m		0	0	
Sulfur	ppm	ASTM D5185m		86	0	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	17	<u>^</u> 21	
Sodium	ppm	ASTM D5185m		<1	0	
Potassium	ppm	ASTM D5185m	>20	<1	0	
Water	%	ASTM D6304	>0.05	0.020	0.020	
ppm Water	ppm	ASTM D6304	>500	200	200.1	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	4048	632	
Particles >6µm		ASTM D7647	>640	382	79	
Particles >14µm		ASTM D7647	>80	30	9	
Particles >21µm		ASTM D7647	>20	8	2	
Particles >38µm		ASTM D7647	>4	0	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>18/16/13	1 9/16/12	16/13/10	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.27	0.23	
(-/	0 - 0				•	



OIL ANALYSIS REPORT





Laboratory Sample No.

: ST44773

Lab Number : 06160376 Unique Number : 10995799

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

Certificate 12367 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.

Tested :01 May 2024 : 01 May 2024 - Jonathan Hester

: 25 Apr 2024

CAPE CANAVERAL, FL US 32920 Contact: GREGORY HILL gregory.hill@spacex.com T: (561)707-4677

620 MAGELLAN RD

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

Received