



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
SHUTTLELIFT 5540F CD1518
 Component
Front Transmission
 Fluid
ATF (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. Note that there appears to be a discrepancy in the total time on this component, when compared to the historical data.

WEAR

Clutch and/or bushing/bearing wear is indicated.

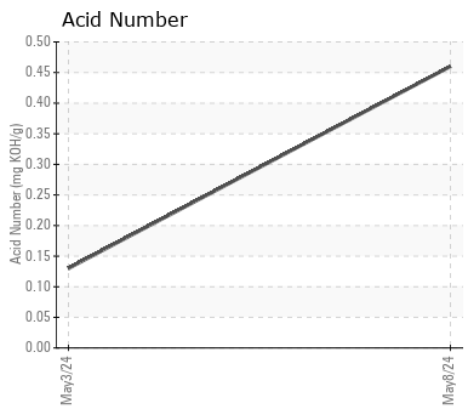
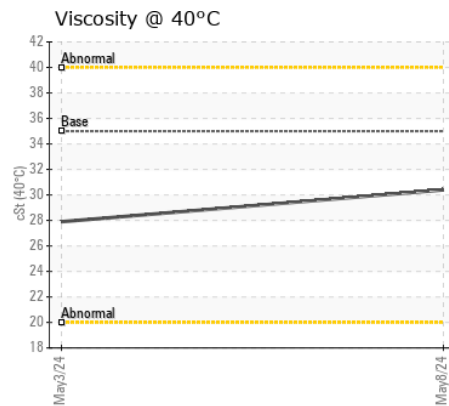
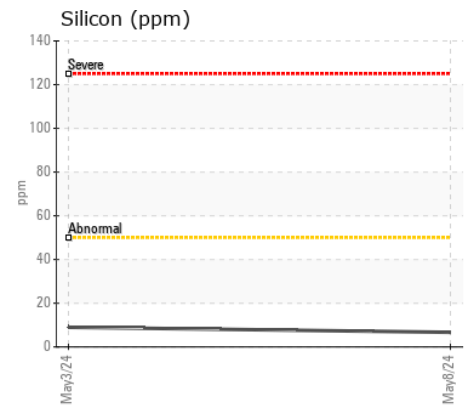
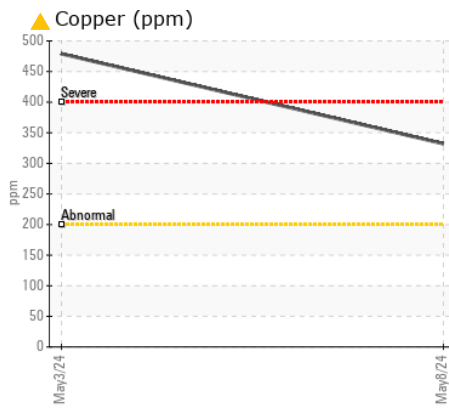
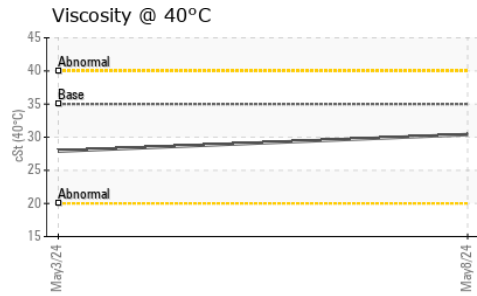
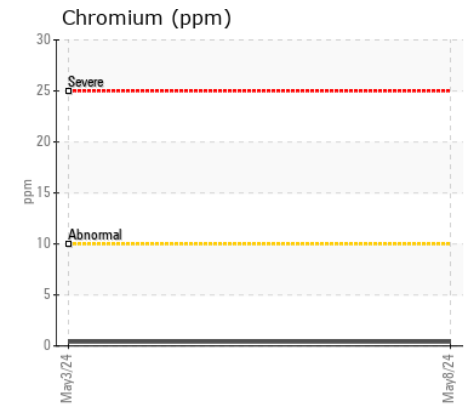
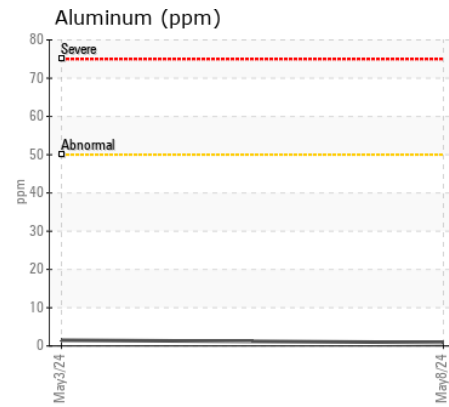
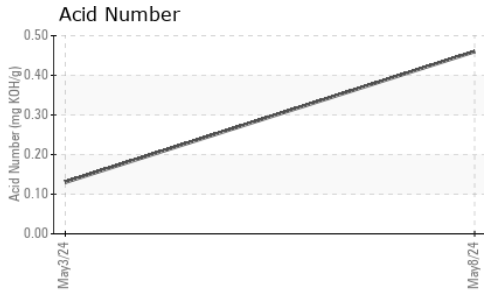
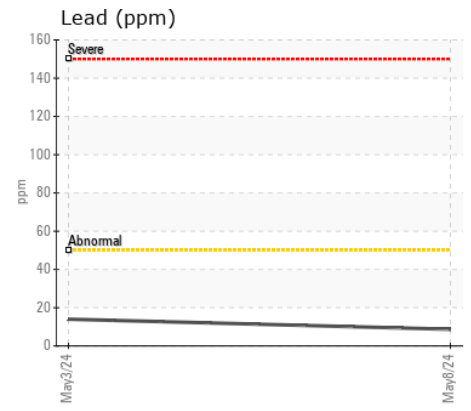
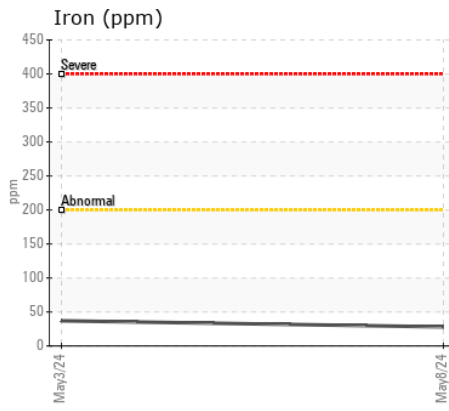
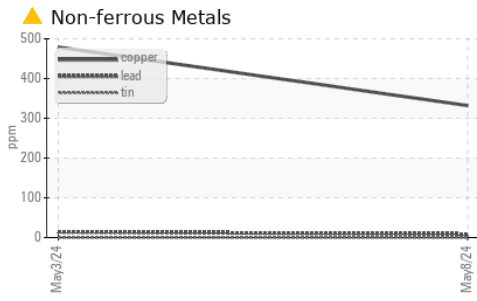
CONTAMINATION

There is no indication of any contamination in the fluid.

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the fluid is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		HPL0005096	HPL0005082	---
Sample Date		Client Info		08 May 2024	03 May 2024	---
Machine Age	hrs	Client Info		1324	3189	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---
Iron	ppm	ASTM D5185m	>200	28	37	---
Chromium	ppm	ASTM D5185m	>10	<1	<1	---
Nickel	ppm	ASTM D5185m		0	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		<1	<1	---
Aluminum	ppm	ASTM D5185m	>50	<1	2	---
Lead	ppm	ASTM D5185m	>50	9	14	---
Copper	ppm	ASTM D5185m	>200	▲ 332	▲ 479	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>50	7	9	---
Potassium	ppm	ASTM D5185m	>20	7	4	---
Water		WC Method	>0.1	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---
Sodium	ppm	ASTM D5185m		8	2	---
Boron	ppm	ASTM D5185m		91	84	---
Barium	ppm	ASTM D5185m		6	8	---
Molybdenum	ppm	ASTM D5185m		11	7	---
Manganese	ppm	ASTM D5185m		8	7	---
Magnesium	ppm	ASTM D5185m		3	7	---
Calcium	ppm	ASTM D5185m		405	571	---
Phosphorus	ppm	ASTM D5185m		337	506	---
Zinc	ppm	ASTM D5185m		217	280	---
Sulfur	ppm	ASTM D5185m		1689	2183	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.46	0.13	---
Visc @ 40°C	cSt	ASTM D445	35.0	30.4	27.9	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : HPL0005096 **Received** : 10 May 2024
Lab Number : 06175687 **Tested** : 13 May 2024
Unique Number : 11021740 **Diagnosed** : 14 May 2024 - Don Baldrige
Test Package : MOB 2

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)

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