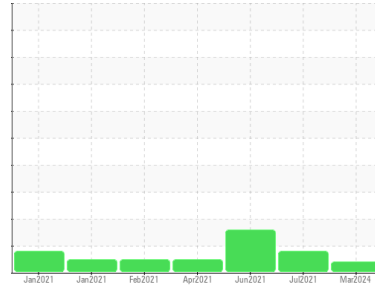




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
Project
 Machine Id
[Project] LPTU
 Component
 Test Point
 Fluid
SKYDROL LD-4 (--- GAL)

DIAGNOSIS

Recommendation

The component was not specified so we have determined that this is a test point based on the fluid type in use. Please specify the correct component type on your next sample. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0741674	WC0493734	WC0493737
Sample Date	Client Info		11 Mar 2024	28 Jul 2021	25 Jun 2021
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			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	4	7	8
Chromium	ppm	ASTM D5185(m)	2	1	<1
Nickel	ppm	ASTM D5185(m)	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m)	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	<1	<1	<1
Lead	ppm	ASTM D5185(m)	<1	<1	1
Copper	ppm	ASTM D5185(m)	14	29	30
Tin	ppm	ASTM D5185(m)	0	<1	<1
Antimony	ppm	ASTM D5185(m)	0	<1	0
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	<1	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	9	6
Barium	ppm	ASTM D5185(m)	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	0	0	0
Manganese	ppm	ASTM D5185(m)	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	<1	0	<1
Calcium	ppm	ASTM D5185(m)	2	3	3
Phosphorus	ppm	ASTM D5185(m)	20000	39380	36946
Zinc	ppm	ASTM D5185(m)	0	10	10
Sulfur	ppm	ASTM D5185(m)	1900	1759	1687
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

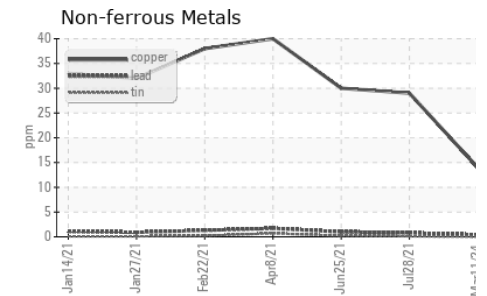
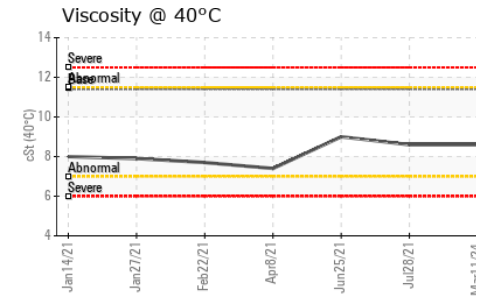
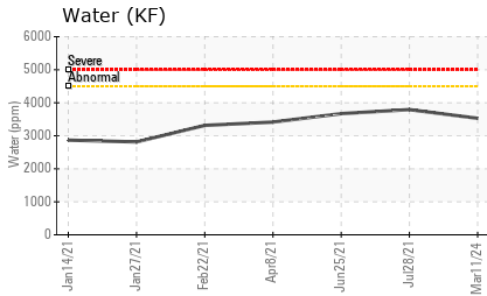
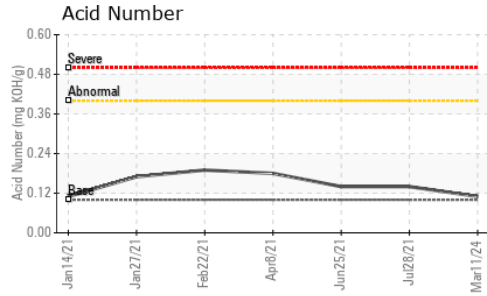
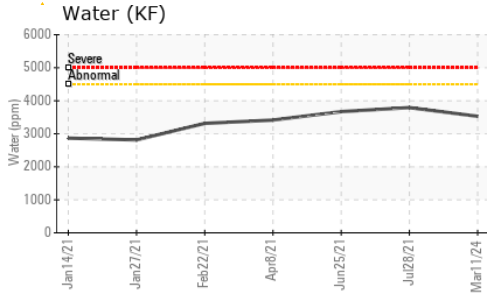
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	1	2	2
Sodium	ppm	ASTM D5185(m)	5	3	3
Potassium	ppm	ASTM D5185(m)	>20	20	20
Water	%	ASTM D6304*	>0.45	0.379	0.367
ppm Water	ppm	ASTM D6304*	>4500	3792.0	3670.5

FLUID CLEANLINESS

	method	limit/base	current	history1	history2	
Particles 5-15µm	count	NAS 1638	>32000	▲ 67074	22180	▲ 91238
Particles 15-25µm	count	NAS 1638	>5700	660	2138	4196
Particles 25-50µm	count	NAS 1638	>1012	193	▲ 1322	▲ 2689
Particles 50-100µm	count	NAS 1638	>180	20	▲ 206	▲ 429
Particles >100µm	count	NAS 1638	>32	20	0	▲ 54
NAS 1638	Class	NAS 1638	>7	9	▲ 8	▲ 9



OIL ANALYSIS REPORT

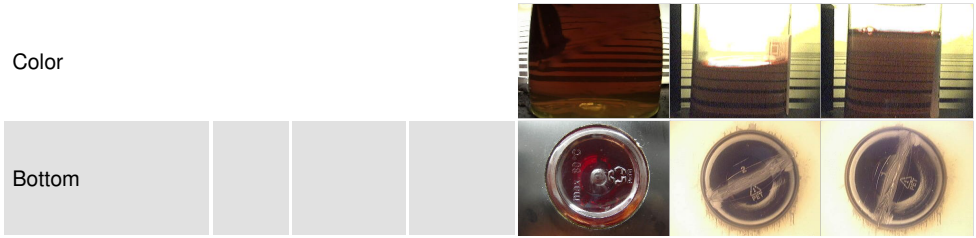


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.10	0.11	0.14	0.14

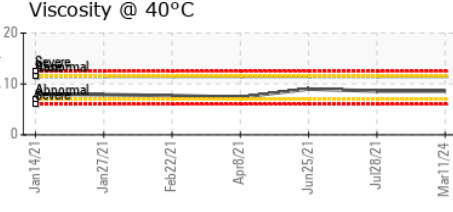
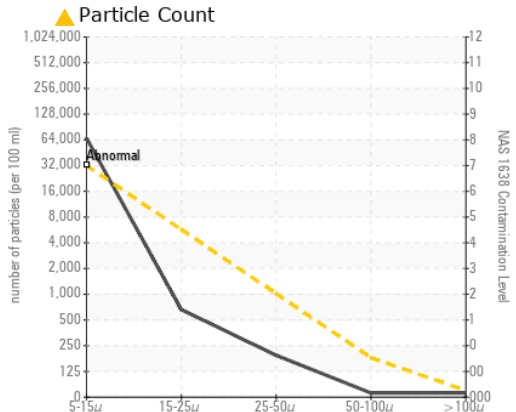
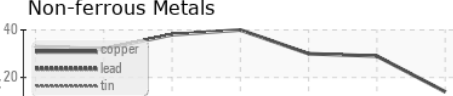
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.45	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	11.42	8.6	8.6	9.0

SAMPLE IMAGES		method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0741674 **Received** : 13 Mar 2024
Lab Number : **02621878** **Tested** : 14 Mar 2024
Unique Number : 5746997 **Diagnosed** : 14 Mar 2024 - Kevin Marson
Test Package : IND 2 (Additional Tests: KF, PrtCount, PrtCountNAS, TAN Man)

Safran Landing Systems
 574 Monarch Ave
 Ajax, ON
 CA L1S 2G8
 Contact: Rob Zane
 rob.zane@safrangroup.com
 T:
 F: (905)683-6983

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.