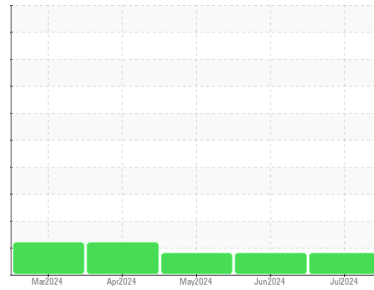




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area  
**Skydrol Room/RIG 18**

Machine Id  
**DEC 2644**

Component  
**Hydraulic System**

Fluid  
**SKYDROL LD-4 (--- GAL)**

## DIAGNOSIS

### Recommendation

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.

### 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		<b>WC0961555</b>	WC0952520	WC0941870
Sample Date	Client Info		<b>02 Jul 2024</b>	04 Jun 2024	07 May 2024
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ATTENTION	ATTENTION

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>20	<b>1</b>	1	<1
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>2</b>	2	1

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	3	3
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Calcium	ppm	ASTM D5185(m)	0	<b>5</b>	6	4
Phosphorus	ppm	ASTM D5185(m)	20000	<b>35452</b>	42767	39614
Zinc	ppm	ASTM D5185(m)	0	<b>3</b>	4	2
Sulfur	ppm	ASTM D5185(m)	1900	<b>1622</b>	1604	1636
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

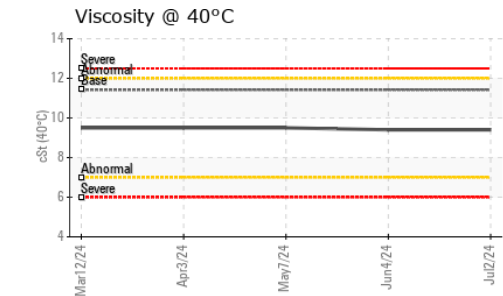
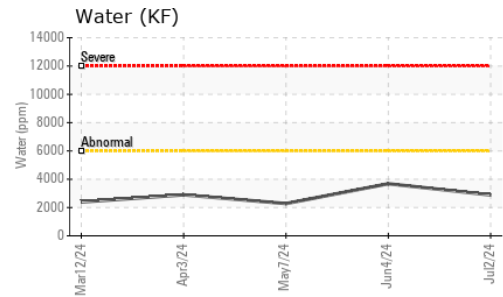
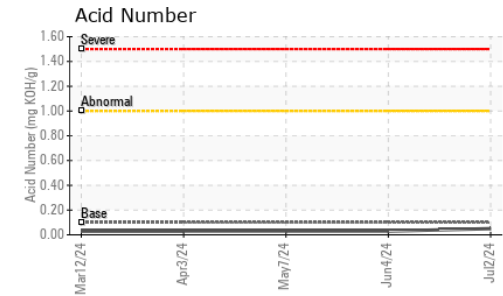
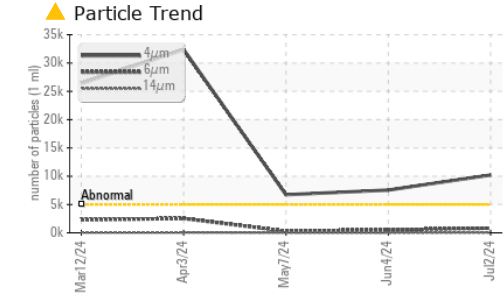
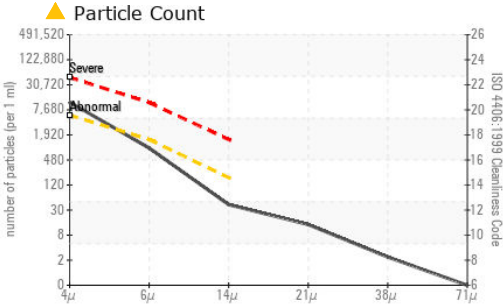
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	1	0
Sodium	ppm	ASTM D5185(m)		<b>8</b>	8	7
Potassium	ppm	ASTM D5185(m)	>20	<b>12</b>	13	14
Water	%	ASTM D6304*	>0.6	<b>0.288</b>	0.368	0.227
ppm Water	ppm	ASTM D6304*	>6000	<b>2887</b>	3681	2279

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>▲ 10211</b>	● 7553	● 6727
Particles >6µm	ASTM D7647	>1300	<b>817</b>	513	305
Particles >14µm	ASTM D7647	>160	<b>36</b>	13	15
Particles >21µm	ASTM D7647	>40	<b>12</b>	3	3
Particles >38µm	ASTM D7647	>10	<b>2</b>	1	1
Particles >71µm	ASTM D7647	>3	<b>0</b>	1	1
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>▲ 21/17/12</b>	● 20/16/11	● 20/15/11



# OIL ANALYSIS REPORT



FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.10	<b>0.05</b>	0.03	0.03

VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.6	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	11.42	<b>9.4</b>	9.4	9.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color			
Bottom			
PrtFilter	no image	no image	no image



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0961555      **Received** : 03 Jul 2024  
**Lab Number** : **02645349**      **Tested** : 04 Jul 2024  
**Unique Number** : 5802888      **Diagnosed** : 05 Jul 2024 - Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: Bottom, FilterPatch, KF, TAN Man )

**Safran Landing Systems**  
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 Ajax, ON  
 CA L1S 2G8  
 Contact: Stuart Potter  
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 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.