

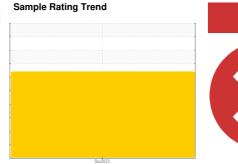
### **PROBLEM SUMMARY**

# DIRT

# **SKYDROL LARGE RIG (HR004)**

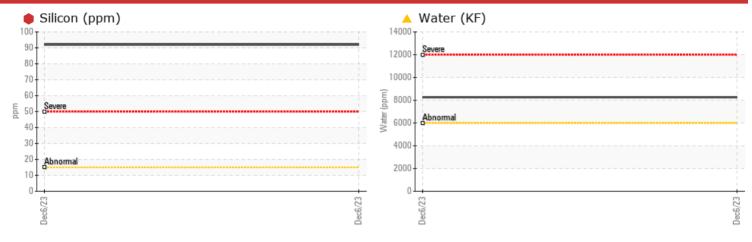
**Hydraulic System** 

SKYDROL LD-4 (--- GAL)





#### **COMPONENT CONDITION SUMMARY**



#### RECOMMENDATION

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE					
Silicon	ppm	ASTM D5185(m)	>15	92					
Water	%	ASTM D6304*	>0.6	<b>△</b> 0.825					
ppm Water	ppm	ASTM D6304*	>6000	<b>A</b> 8259					

Customer Id: GLOMIS Sample No.: WC0885994 Lab Number: 02601745 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			
Resample			?	We recommend an early resample to monitor this condition.			
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.			
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.			
Check Water Access			?	We advise that you check for the source of water entry.			
Check Seals			?	Check seals and/or filters for points of contaminant entry.			
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			

HISTORICAL DIAGNOSIS



# **OIL ANALYSIS REPORT**

Sample Rating Trend





### DIAGNOSIS

#### Recommendation

**Hydraulic System** 

SKYDROL LD-4 (--- GAL)

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We advise that you perform a filter service, and use offline filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

**SKYDROL LARGE RIG (HR004)** 

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate concentration of water present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material and/or dirt.

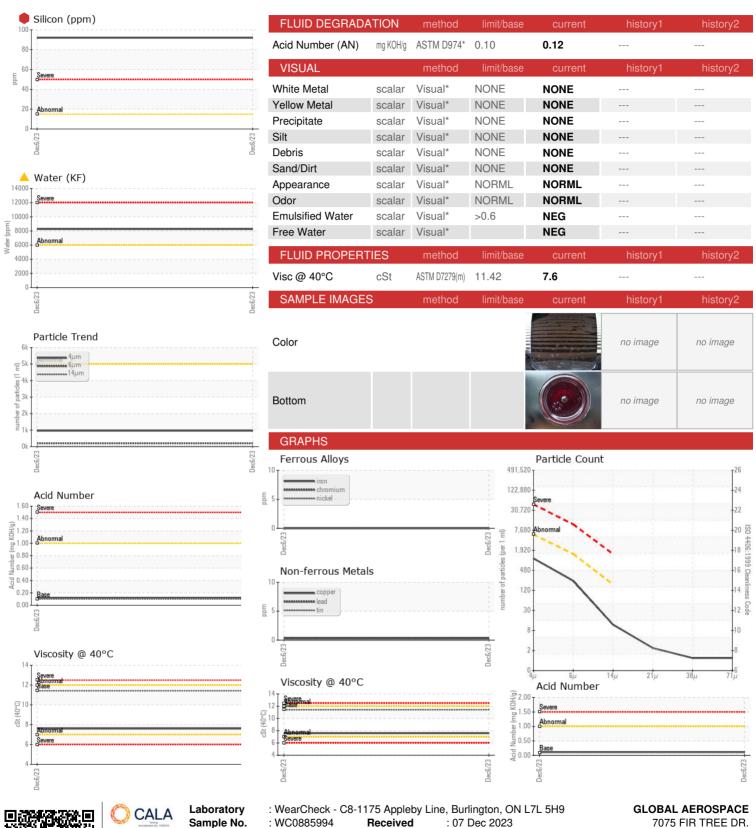
#### **Fluid Condition**

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

0.4.4.7.				Dec2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0885994		
Sample Date		Client Info		06 Dec 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	0		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>20	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		<1		
Aluminum	ppm	ASTM D5185(m)	>20	0		
Lead	ppm	ASTM D5185(m)	>20	<1		
Copper	ppm		>20	<1		
Tin	ppm	ASTM D5185(m)	>20	0		
Antimony	ppm	ASTM D5185(m)	-	0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	5		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)	0	0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	0	<1		
Calcium	ppm	ASTM D5185(m)	0	1		
Phosphorus	ppm	ASTM D5185(m)	20000	34904		
Zinc	ppm	ASTM D5185(m)	0	2		
Sulfur	ppm	ASTM D5185(m)	1900	1565		
Lithium	ppm	ASTM D5185(m)		2		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		92		
Sodium	ppm	ASTM D5185(m)	× 10	5		
Potassium	ppm	ASTM D5185(m)	>20	6		
Water	%	ASTM D3103(III) ASTM D6304*	>0.6	△ 0.825		
ppm Water	ppm	ASTM D6304*	>6000	▲ 8259		
FLUID CLEANLIN	• •	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	963		
		ASTM D7647		205		
Particles >6µm						
Particles >14µm		ASTM D7647	>160	10		
Particles >21µm		ASTM D7647		2		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647		17/15/10		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/10		



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited

Laboratory

Sample No. Lab Number **Unique Number** 

: WC0885994 : 02601745

Received : 5694830

: 11 Dec 2023 Diagnosed Diagnostician : Kevin Marson Test Package : IND 2 ( Additional Tests: KF, TAN Man )

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.

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