

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

DEC 2644 Component Hydraulic System Fluid SKYDROL LD-4 (--- GAL)

Skydrol Room/RIG 18

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

Area

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 INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0926859	WC0920421	
Sample Date		Client Info		03 Apr 2024	12 Mar 2024	
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 D5185(m)	>20	1	<1	
Chromium	ppm	ASTM D5185(m)	>20	0	0	
Nickel	ppm	ASTM D5185(m)	>20	0	0	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		0	0	
Aluminum	ppm	ASTM D5185(m)	>20	<1	1	
Lead	ppm	ASTM D5185(m)	>20	0	0	
Copper	ppm	ASTM D5185(m)	>20	<1	<1	
Tin	ppm	ASTM D5185(m)	>20	0	0	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		2	2	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	2	1	
Barium	ppm	ASTM D5185(m)	0	2	0	
Molybdenum	ppm	ASTM D5185(m)	0	0	0	
Manganese	ppm	ASTM D5185(m)		0	0	
Magnesium	ppm	ASTM D5185(m)	0	<1	<1	
Calcium	ppm	ASTM D5185(m)	0	5	5	
Phosphorus	ppm	ASTM D5185(m)	20000	41125	39803	
Zinc	ppm	ASTM D5185(m)	0	7	2	
Sulfur	ppm	ASTM D5185(m)	1900	1589	1729	
Lithium						
	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		ASTM D5185(m) method	limit/base	<1 current	<1 history1	 history2
		()	limit/base			
CONTAMINANTS Silicon Sodium	5	method		current	history1	
Silicon	ppm	method ASTM D5185(m)		current 0	history1 <1	history2
Silicon Sodium Potassium	ppm ppm	method ASTM D5185(m) ASTM D5185(m)	>15	current 0 4	<mark>history1</mark> <1 5	history2
Silicon Sodium	ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>15 >20	current 0 4 17	history1 <1 5 17	history2
Silicon Sodium Potassium Water	ppm ppm ppm % ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D6304*	>15 >20 >0.6	current 0 4 17 0.289	history1 <1 5 17 0.239	history2
Silicon Sodium Potassium Water ppm Water	ppm ppm ppm % ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304*	>15 >20 >0.6 >6000	current 0 4 17 0.289 2897	history1 <1 5 17 0.239 2393	history2
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN	ppm ppm ppm % ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304* method	>15 >20 >0.6 >6000 limit/base	current 0 4 17 0.289 2897 current	history1 <1 5 17 0.239 2393 history1	history2
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm % ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304* Method ASTM D7647	>15 >20 >0.6 >6000 limit/base >5000	current 0 4 17 0.289 2897 current 32383	history1 <1 5 17 0.239 2393 history1 ▲ 26400	history2 history2
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm ppm ppm % ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304* Method ASTM D7647 ASTM D7647	>15 >20 >0.6 >6000 limit/base >5000 >1300 >160	current 0 4 17 0.289 2897 current ▲ 32383 ▲ 2527 50	history1 <1 5 17 0.239 2393 history1 ▲ 26400 ● 2308	history2 history2 history2
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm % ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304* Method ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 >0.6 >6000 limit/base >5000 >1300 >160	current 0 4 17 0.289 2897 current ▲ 32383 ▲ 2527	history1 <1 5 17 0.239 2393 history1 ▲ 26400 ● 2308 50	history2 history2 history2
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm % ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304* ASTM D6304* ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 >0.6 >6000 limit/base >5000 >1300 >160 >40 >10	current 0 4 17 0.289 2897 current 32383 ▲ 2527 50 18	history1 <1 5 17 0.239 2393 history1 ▲ 26400 2308 50 14	history2 history2 history2



OIL ANALYSIS REPORT

A Particle Trend	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
² 30k - 4μm 6μm	Acid Number (AN)	mg KOH/g	ASTM D974*	0.10	0.03	0.03	
= 25k + •••••••••••••••••••••••••••••••••••	VISUAL		method	limit/base	current	history1	history2
월 20k	White Metal	scalar	Visual*	NONE	NONE	NONE	
₩ 10k -	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
	Precipitate	scalar	Visual*	NONE	NONE	NONE	
ar12/24	Silt	scalar	Visual*	NONE	NONE	NONE	
Mar12/24	Debris	scalar	Visual*	NONE	NONE	NONE	
Water (KF)	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
4000	Appearance	scalar	Visual*	NORML	NORML	NORML	
2000 - Severe	Odor			NORML	NORML	NORML	
8000	Emulsified Water	scalar	Visual*	>0.6	NEG NEG	NEG	
6000 - Abnomal	Free Water		Visual*		NEG	NEG	
4000-	FLUID PROPERT	FIES	method	limit/base	current	history1	history2
0	Visc @ 40°C	cSt	ASTM D7279(m)	11.42	9.5	9.5	
Mar12/24	SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Acid Number	Color						no image
1.20 Abnormal 0.80 0.60 0.40	Bottom						no image
0.20 Base	GRAPHS						
9.см	Ferrous Alloys			491,520	Particle Count	:	20
Water (KF) 14000 12000 400	Non-ferrous Meta	ls		122.880 30.720 1000 470/200 40 40 40 40 40 40 40 40 40 40 40 40 4	Abnom		-24 -22 -20 ISO 4406: 1999 Cleanliness Code -16 Code -12 Code -10
Viscosity @ 40°C	Mar12/24			Apr3/24			
12 - Severe Base	Viscosity @ 40°C			_	^{4μ} 6μ Acid Number	14μ 21μ	38µ 71µ́
ç 10-				() () () () () () () () () () () () () (Severe		
(2010- 00-00-00-00-00-00-00-00-00-00-00-00-0	(30, 10 - 53, 8 - Abnormal) + 0		
Abnormal 6 + Severe	ری 8 Abnormal Severe 6 - Severe			quantum 0.50)		
	4				Base		- +
. 12/24	Mar12/2			Apr3/24	Mar12/2		Apr3/2
Laboratory Sample No. Lab Number Unique Number Test Package To discuss this sample report, Test denoted (*) outside scope	: WearCheck - C8-117: : WC0926859 : 02626828 : 5759960 : IND 2 (Additional Test contact Customer Serv	Recei Teste Diagn sts: KF, T, ice at 1-8	ved : 04 d : 05 nosed : 05 AN Man) 200-268-213	Apr 2024 5 Apr 2024 6 Apr 2024 - W	_ 5H9 /es Davis	574	ding Systems 4 Monarch Ave Ajax, ON CA L1S 2G8 t: Stuart Potter frangroup.com

Report Id: SAFAJA2 [WCAMIS] 02626828 (Generated: 04/05/2024 17:28:50) Rev: 1

Contact/Location: Stuart Potter - SAFAJA2 Page 2 of 2