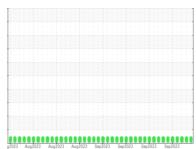


OIL ANALYSIS REPORT

Sample Rating Trend







QC230213IND2

Component

Hydraulic System

AW HYDRAULIC OIL ISO 68 (--- GAL)

DIAGNOSIS

Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

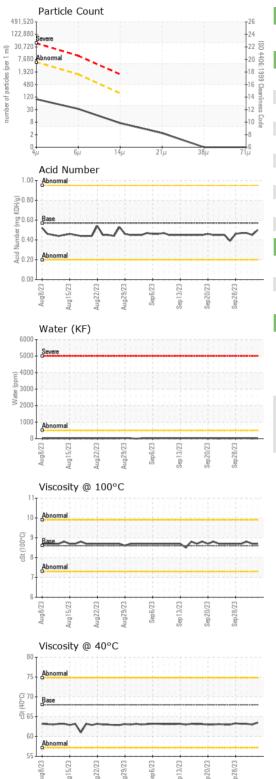
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

g2023 Aug2023 Aug2023 Aug2023 Sm2023 Sm2023 Sm2023 Sm2023									
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		WC0865572	WC0865571	WC0865570			
Sample Date		Client Info		05 Oct 2023	04 Oct 2023	03 Oct 2023			
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				NORMAL	NORMAL	NORMAL			
WEAR METALS		method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185(m)	>20	0	0	0			
Chromium	ppm	ASTM D5185(m)	>20	0	0	0			
Nickel	ppm	ASTM D5185(m)	>20	0	0	0			
Titanium	ppm	ASTM D5185(m)		0	0	0			
Silver	ppm	ASTM D5185(m)		<1	<1	<1			
Aluminum	ppm	ASTM D5185(m)	>20	0	0	0			
Lead	ppm	ASTM D5185(m)	>20	0	0	<1			
Copper	ppm	ASTM D5185(m)	>20	<1	<1	<1			
Tin	ppm	ASTM D5185(m)	>20	0	0	0			
Antimony	ppm	ASTM D5185(m)		0	0	0			
Vanadium	ppm	ASTM D5185(m)		0	0	0			
Beryllium	ppm	ASTM D5185(m)		0	0	0			
Cadmium	ppm	ASTM D5185(m)		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185(m)	5	<1	<1	<1			
Barium	ppm	ASTM D5185(m)	5	0	<1	<1			
Molybdenum	ppm	ASTM D5185(m)	5	0	0	0			
Manganese	ppm	ASTM D5185(m)		0	0	0			
Magnesium	ppm	ASTM D5185(m)	25	0	0	0			
Calcium	ppm	ASTM D5185(m)	200	43	42	43			
Phosphorus	ppm	ASTM D5185(m)	300	334	327	336			
Zinc	ppm	ASTM D5185(m)	370	424	418	430			
Sulfur	ppm	ASTM D5185(m)	2500	691	680	693			
Lithium	ppm	ASTM D5185(m)		<1	<1	<1			
CONTAMINANTS	;	method	limit/base	current	history1	history2			
Silicon	ppm	ACTM DE10E()				0			
	1-1-	ASTM D5185(m)	>15	0	<1	0			
Sodium	ppm	ASTM D5185(m) ASTM D5185(m)	>15	0 <1	<1 <1	0			
Sodium Potassium		()	>15	-					
	ppm	ASTM D5185(m)		<1	<1	0			
Potassium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>20	<1	<1 0	0			
Potassium Water	ppm ppm % ppm	ASTM D5185(m) ASTM D5185(m) ASTM D6304*	>20 >0.05	<1 0 0.002	<1 0 0.001	0 0 0.003			
Potassium Water ppm Water	ppm ppm % ppm	ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304*	>20 >0.05 >500	<1 0 0.002 19.1	<1 0 0.001 8.7	0 0 0.003 27.5			
Potassium Water ppm Water FLUID CLEANLIN	ppm ppm % ppm	ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304*	>20 >0.05 >500 limit/base	<1 0 0.002 19.1 current	<1 0 0.001 8.7 history1	0 0 0.003 27.5 history2			
Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm ppm % ppm	ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304* method ASTM D7647	>20 >0.05 >500 limit/base >5000	<1 0 0.002 19.1 current	<1 0 0.001 8.7 history1	0 0 0.003 27.5 history2			
Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm % ppm	ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304* method ASTM D7647 ASTM D7647	>20 >0.05 >500 limit/base >5000 >1300	<1 0 0.002 19.1 current 84 29	<1 0 0.001 8.7 history1 79 26	0 0 0.003 27.5 history2 39 12			
Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm % ppm	ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304* Method ASTM D7647 ASTM D7647 ASTM D7647	>20 >0.05 >500 limit/base >5000 >1300 >160	<1 0 0.002 19.1 current 84 29 6	<1 0 0.001 8.7 history1 79 26 5	0 0 0.003 27.5 history2 39 12 5			
Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm % ppm	ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304* method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >0.05 >500 limit/base >5000 >1300 >160 >40	<1 0 0.002 19.1 current 84 29 6	<1 0 0.001 8.7 history1 79 26 5	0 0 0.003 27.5 history2 39 12 5			



OIL ANALYSIS REPORT



FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.50	0.45	0.47
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	NONE
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*	>0.05	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	68	63.5	63.0	63.2
Visc @ 100°C	cSt	ASTM D7279(m)	8.6	8.7	8.7	8.8
Viscosity Index (VI)	Scale	ASTM D2270*	96	109	110	113
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
				三层		EZ
Color						
00101						
				The state of the s		
Bottom						



CALA ISO 17025:2017 Accredited

Laboratory

Report Id: QA [WCAMIS] 02587154 (Generated: 10/06/2023 10:17:20) Rev: 1

Laboratory Sample No. Lab Number **Unique Number**

: 02587154 : 5656220

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 WearCheck Quality Control Sample Results : WC0865572 Received

Diagnosed Diagnostician : Wes Davis

: 05 Oct 2023 : 06 Oct 2023

Burlington, ON CA

Test Package : IND 2 (Additional Tests: KF, KV100, TAN Man, VI) 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.

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Contact: Dorian Anderson

F: (905)569-8605