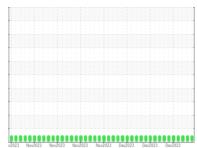


OIL ANALYSIS REPORT

Sample Rating Trend







QC230213IND2

Component

Hydraulic System

AW HYDRAULIC OIL ISO 68 (--- GAL)

	٧C	

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.

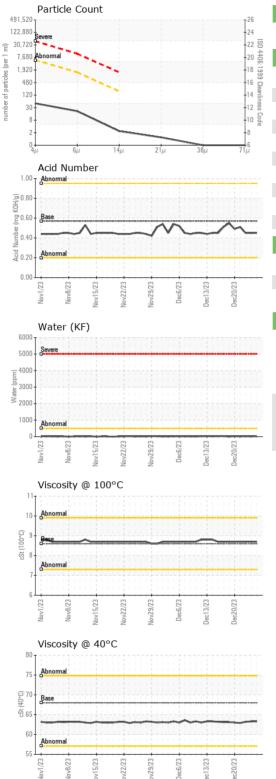
Fluid Condition

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

v2023 Nov2023 Nov2023 Nov2023 Nov2023 Doc2023 Doc2023 Doc2023							
SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0883425	WC0883424	WC0883419	
Sample Date		Client Info		28 Dec 2023	27 Dec 2023	22 Dec 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	<1	<1	0	
Titanium	ppm	ASTM D5185(m)		0	0	0	
Silver	ppm	ASTM D5185(m)		0	0	0	
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	<1	
Lead	ppm	ASTM D5185(m)	>20	<1	0	0	
Copper	ppm	ASTM D5185(m)	>20	0	<1	0	
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	0	0	
Barium	ppm	ASTM D5185(m)	5	0	0	0	
Molybdenum	ppm	ASTM D5185(m)	5	0	0	0	
Manganese	ppm	ASTM D5185(m)		0	0	0	
Magnesium	ppm	ASTM D5185(m)	25	<1	3	<1	
Calcium	ppm	ASTM D5185(m)	200	42	45	44	
Phosphorus	ppm	ASTM D5185(m)	300	333	331	352	
Zinc	ppm	ASTM D5185(m)	370	407	407	424	
Sulfur	ppm	ASTM D5185(m)	2500	700	690	741	
Lithium	ppm	ASTM D5185(m)		<1	<1	<1	
CONTAMINANTS	;	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>15	0	0	<1	
Sodium	ppm	ASTM D5185(m)		0	0	0	
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1	
Water	%	ASTM D6304*	>0.05	0.003	0.002	0.002	
ppm Water	ppm	ASTM D6304*	>500	27	17	24	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>5000	43	97	384	
Particles >6µm		ASTM D7647	>1300	18	32	111	
Particles >14µm		ASTM D7647	>160	2	5	12	
Particles >21µm		ASTM D7647	>40	1	1	3	
Particles >38µm		ASTM D7647	>10	0	0	0	
Particles >71µm		ASTM D7647	>3	0	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	13/11/9	14/12/10	16/14/11	



OIL ANALYSIS REPORT



FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.45	0.45	0.45
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	63.3	63.3	63.2
Visc @ 100°C	cSt	ASTM D7279(m)	8.6	8.7	8.7	8.7
Viscosity Index (VI)	Scale	ASTM D2270*	96	110	110	110
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
				1 250	200 Dates 22 274023	
Color						
				(Inches)		
Bottom						



CALA ISO 17025:2017 Accredited

Laboratory Sample No. Lab Number **Unique Number** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 WearCheck Quality Control Sample Results : WC0883425 Recieved : 28 Dec 2023 : 02605557

Diagnosed : 29 Dec 2023 Diagnostician : Wes Davis

Burlington, ON CA Contact: Dorian Anderson

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.

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

: 5698642

T: (289)291-4652 F: (905)569-8605

dorian.anderson@wearcheck.com