

# **OIL ANALYSIS REPORT**

#### Sample Rating Trend

# NORMAL

# QC230213IND2

#### Component Hydraulic System Fluid 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.

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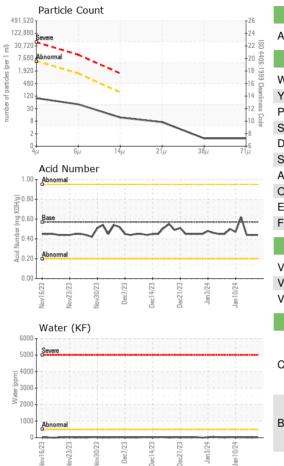


## v2023 Nov2023 Nov2023 Dec2023 Dec2023 Dec2023 Jan2024 Jan2024

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0894122	WC0894121	WC0894118
Sample Date		Client Info		16 Jan 2024	15 Jan 2024	12 Jan 2024
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	0	<1
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	0	0	0
Copper	ppm	ASTM D5185(m)	>20	0	0	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	0	<1	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	<1	0
Calcium	ppm	ASTM D5185(m)	200	44	44	44
Phosphorus	ppm	ASTM D5185(m)	300	363	348	340
Zinc	ppm	ASTM D5185(m)	370	414	417	420
Sulfur	ppm	ASTM D5185(m)	2500	726	789	716
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	0	0	0
Sodium	ppm	ASTM D5185(m)		0	0	0
Potassium	ppm	ASTM D5185(m)	>20	1	1	10
Water	%	ASTM D6304*	>0.05	0.002	0.001	0.002
ppm Water	ppm	ASTM D6304*	>500	24	15	17
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	84	88	58
Particles >6µm		ASTM D7647	>1300	43	34	25
Particles >14µm		ASTM D7647	>160	10	7	4
Particles >21µm		ASTM D7647	>40	6	3	2
Particles >38µm		ASTM D7647	>10	1	0	0
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	14/13/10	14/12/10	13/12/9



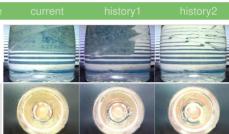
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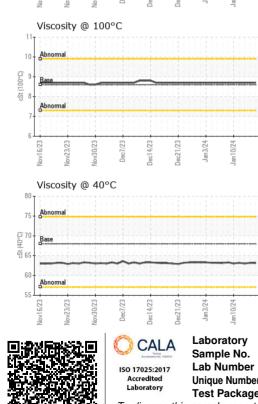


FLUID DEGRADA	TION	method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.44	0.44	0.44		
VISUAL		method	limit/base	current	history1	history2		
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE		
Precipitate	scalar	Visual*	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	63.1	63.2	63.0		
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	5	method	limit/base	current	history1	history2		

Color

## Bottom





	: WearCheck - C8-1	175 Appleby Lin	e, Burlington, ON L	7L 5H9 WearCheck Quality Control Sample Results
	: WC0894122	Recieved	: 16 Jan 2024	
r	: 02608988	Diagnosed	: 17 Jan 2024	Burlington, ON
er	: 5710074	Diagnostician	: Wes Davis	CA
je	: IND 2 ( Additional	Tests: KF, KV10	0, VI )	Contact: Dorian Anderson
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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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