

# **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.

																							1
																							1
																							+
																							1
																							1
																							1
																							4
																							1
																							4
																							1
																							1
																							1
																							1
																							1
																							1

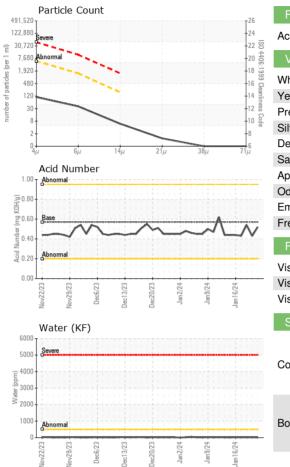


### v2023 Nov2023 Dec2023 Dec2023 Dec2023 Jan2024 Jan2024 Jan2024

SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0894128	WC0894125	WC0894124
Sample Date		Client Info		22 Jan 2024	19 Jan 2024	18 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	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	0	<1	<1
Lead	ppm	ASTM D5185(m)	>20	0	0	0
Copper	ppm	ASTM D5185(m)	>20	<1	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	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	0	0	<1
Calcium	ppm	ASTM D5185(m)	200	44	45	43
Phosphorus	ppm	ASTM D5185(m)	300	344	339	335
Zinc	ppm	ASTM D5185(m)	370	419	416	408
Sulfur	ppm	ASTM D5185(m)	2500	741	719	718
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	;	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	1
Water	%	ASTM D6304*	>0.05	0.001	0.002	0.002
ppm Water	ppm	ASTM D6304*	>500	11	24	21
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	95	93	121
Particles >6µm		ASTM D7647	>1300	34	37	39
Particles >14µm		ASTM D7647	>160	5	6	4
Particles >21µm		ASTM D7647	>40	1	2	1
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	14/12/10	14/12/10	14/12/9



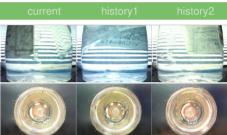
# **OIL ANALYSIS REPORT**

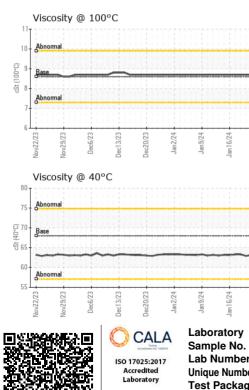


FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.52	0.43	0.54
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	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	63.2	62.9	63.3
Visc @ 100°C	cSt	ASTM D7279(m)	8.6	8.7	8.7	8.7
Viscosity Index (VI)	Scale	ASTM D2270*	96	110	111	110
SAMPLE IMAGES	6	method	limit/base	current	history1	history2

Color

## Bottom





ry	: WearCheck - C8-1	175 Appleby Line	e, Burlington, ON L7	7L 5H9 WearCheck Quality Control S	Sample Results
lo.	: WC0894128	Recieved	: 22 Jan 2024		
ber	: 02610291	Diagnosed	: 23 Jan 2024	B	urlington, ON
mber	: 5711377	Diagnostician	: Wes Davis		CA
kage	: IND 2 ( Additional	Tests: KF, KV100	), TAN Man, VI )	Contact: Dor	ian Anderson
port, c	ontact Customer Ser	vice at 1-800-268	dorian.anderson@we	archeck.com	

To discuss this sample rep 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.

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