

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 Nov2023 Dec2023 Dec2023 Dec2023 Jan2024

Sample Date Client Info 09 Jan 2024 08 Jan 2024 05 Jan 2024 Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info 0 0 0 Sample Status Imit Poil N/A N/A N/A N/A WEAR METALS method Imit Poil NORMAL NORMAL NORMAL VEAR METALS method Imit Poil N/A N/A N/A Nickel ppm ASTM 05185(m) >20 0 0 0 Nickel ppm ASTM 05185(m) >20 0 0 0 Nickel ppm ASTM 05185(m) >20 0 0 0 Aluminum ppm ASTM 05185(m) >20 0 0 0 Aluminum ppm ASTM 05185(m) >20 0 0 0 Aluminum ppm ASTM 05185(m) >20 0 0 0 Astmotistim <th>SAMPLE INFOR</th> <th>MATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0 0 0 Dil Age hrs Client Info 0 0 0 NORMAL N/A N/A N/A Sample Status Instory NORMAL NORMAL NORMAL WEAR METALS method imit/base current history1 history2 Iron ppm ASTM 05185(m) >20 0 0 0 Chronnium ppm ASTM 05185(m) >20 0 0 0 Nickel ppm ASTM 05185(m) >20 0 0 0 Silver ppm ASTM 05185(m) >20 0 0 0 Copper ppm ASTM 05185(m) >20 0 0 0 Chantinom ppm ASTM 05185(m) >20 0 0 0 Antimony ppm ASTM 05185(m) >20 0 0 0 Varaadium ppm ASTM 05185(m) >20 0 0 0 Antimony ppm ASTM 05185(m) 0 0 0 Antimony ppm ASTM 05185(m) 20 0 0 Beron ppm	Sample Number		Client Info		WC0894115	WC0894114	WC0894111
Oil Age hrs Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A N/A 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 Silver ppm ASTM D5185(m) >20 0 0 0 Copper ppm ASTM D5185(m) >20 0 0 0 Cadadium ppm ASTM D5185(m) >20 0 0 0 Vanadium ppm ASTM D5185(m) >20 0 0 0 Astm D5185(m) S 0 0 0 0 0 Cadmium ppm ASTM D5185(m) 5 0 0 0	Sample Date		Client Info		09 Jan 2024	08 Jan 2024	05 Jan 2024
Oil Changed Client Info N/A N/A N/A N/A Sample Status 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 Nickel ppm ASTM D5185(m) >20 0 0 0 Rithon 0 0 0 0 0 0 ASTM D5185(m) >20 0 0 0 0 Astm D5185(m) 5 0 0 0 0 Astm D5185(m) 5 0 0 0 <	Machine Age	hrs	Client Info		0	0	0
Sample Status method Imit/bass current NORMAL NORMAL NORMAL WEAR METALS method Imit/bass current history1 history2 Iron ppm ASTM 05185(m) >20 0 0 0 Nickel ppm ASTM 05185(m) >20 0 <1 0 Nickel ppm ASTM 05185(m) >20 0 <1 0 Silver ppm ASTM 05185(m) >20 0 0 0 Copper ppm ASTM 05185(m) >20 0 0 0 Vanadium ppm ASTM 05185(m) >20 0 0 0 Vanadium ppm ASTM 05185(m) 0 0 0 0 Astm 05185(m) 0 0 0 0 0 0 Astm 05185(m) 5 0 0 0 0 0 Astm 05185(m) 5 0 0 0 0	Oil Age	hrs	Client Info		0	0	0
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Iron ppm ASTM D5185(m) >20 0 0 0 Chromium ppm ASTM D5185(m) >20 0 <1	Sample Status				NORMAL	NORMAL	NORMAL
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Nickel ppm ASTM D5185(m) ≥0 0 <1	Iron	ppm	ASTM D5185(m)	>20	0	0	0
Titanium ppm ASTM D5185(m) 0 0 0 Silver 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 Copper ppm ASTM D5185(m) 0 0 0 0 Cadmium ppm ASTM D5185(m) 0 0 0 0 Cadmium ppm ASTM D5185(m) 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 5 0 0 0 Magnesium ppm ASTM D5185(m) 25 <1 2 <1 Calcium ppm ASTM D5185(m) 200 42 43 44<	Chromium	ppm	ASTM D5185(m)	>20	0	0	0
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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 Magnesium ppm ASTM D5185(m) 25 <1 2 <1 Calcium ppm ASTM D5185(m) 200 42 43 44 Phosphorus ppm ASTM D5185(m) 300 332 336 3400 Sulfur ppm ASTM D5185(m) 2500 696 718 729 Lithium ppm ASTM D5185(m) >15 0 0 0	Tin	ppm	ASTM D5185(m)	>20	0	0	0
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Manganese ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 25 <1 2 <1 Calcium ppm ASTM D5185(m) 200 42 43 44 Phosphorus ppm ASTM D5185(m) 300 332 336 340 Zinc ppm ASTM D5185(m) 370 403 417 419 Sulfur ppm ASTM D5185(m) 2500 696 718 729 Lithium ppm ASTM D5185(m) 2500 696 718 729 Lithium ppm ASTM D5185(m) 2500 696 718 729 Silicon ppm ASTM D5185(m) 250 60 0 0 Sodium ppm ASTM D5185(m) >15 0 0 0 Potassium ppm ASTM D5185(m) >20 <1 <1 <1 Water % ASTM D6304*	Barium	ppm	ASTM D5185(m)	5	1	0	0
Magnesium ppm ASTM D5185(m) 25 <1	Molybdenum	ppm	ASTM D5185(m)	5	0	0	0
Calcium ppm ASTM D5185(m) 200 42 43 44 Phosphorus ppm ASTM D5185(m) 300 332 336 340 Zinc ppm ASTM D5185(m) 370 403 417 419 Sulfur ppm ASTM D5185(m) 2500 696 718 729 Lithium ppm ASTM D5185(m) 2500 696 718 729 Lithium ppm ASTM D5185(m) 2500 696 718 729 Silicon ppm ASTM D5185(m) 2500 current history1 history2 Silicon ppm ASTM D5185(m) >15 0 0 0 Sodium ppm ASTM D5185(m) >20 <1 <1 <1 Water % ASTM D5185(m) >20 <1 <1 <1 Water % ASTM D6304* >0.05 0.003 0.001 0.003 ppm Water ppm	Manganese	ppm	ASTM D5185(m)		0	0	0
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Sulfur ppm ASTM D5185(m) 2500 696 718 729 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) >15 0 0 0 Sodium ppm ASTM D5185(m) >15 0 0 0 Potassium ppm ASTM D5185(m) >20 <1 <1 <1 Water % ASTM D6304* >0.05 0.003 0.001 0.003 ppm Water ppm ASTM D6304* >500 33 13 26 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 111 93 81 Particles >6µm ASTM D7647 >1300	Phosphorus	ppm	ASTM D5185(m)	300	332	336	340
Lithium ppm ASTM D5185(m) <1	Zinc	ppm	ASTM D5185(m)	370	403	417	419
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 0 0 0 Sodium ppm ASTM D5185(m) >15 0 0 0 Potassium ppm ASTM D5185(m) >20 <1 <1 <1 Water % ASTM D6304* >0.05 0.003 0.001 0.003 ppm Water ppm ASTM D6304* >500 33 13 26 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 111 93 81 Particles >6µm ASTM D7647 >1300 42 43 24 Particles >14µm ASTM D7647 >160 10 11 3 Particles >21µm ASTM D7647 >40 4 1 1 Particles >38µm ASTM D7647 >10 1 0 0	Sulfur	ppm	ASTM D5185(m)	2500	696	718	729
Silicon ppm ASTM D5185(m) >15 0 0 0 Sodium ppm ASTM D5185(m) >15 0 0 0 0 Potassium ppm ASTM D5185(m) >20 <1 <1 <1 Water % ASTM D6304* >0.05 0.003 0.001 0.003 ppm Water ppm ASTM D6304* >500 33 13 26 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 111 93 81 Particles >6µm ASTM D7647 >1300 42 43 24 Particles >14µm ASTM D7647 >160 10 11 3 Particles >21µm ASTM D7647 >40 4 1 Particles >38µm ASTM D7647 >10 1 0 0 Particles >71µm ASTM D7647 >3 0 0 0 0	Lithium	ppm	ASTM D5185(m)		<1	<1	<1
Sodium ppm ASTM D5185(m) 0 0 0 0 Potassium ppm ASTM D5185(m) >20 <1 <1 <1 Water % ASTM D6304* >0.05 0.003 0.001 0.003 ppm Water ppm ASTM D6304* >500 33 13 26 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 111 93 81 Particles >6µm ASTM D7647 >1300 42 43 24 Particles >14µm ASTM D7647 >160 10 11 3 Particles >21µm ASTM D7647 >40 4 1 Particles >38µm ASTM D7647 >10 1 0 0 Particles >71µm ASTM D7647 >3 0 0 0	CONTAMINANT	S	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185(m) >20 <1	Silicon	ppm	ASTM D5185(m)	>15	0	0	0
Potassium ppm ASTM D5185(m) >20 <1	Sodium	ppm	ASTM D5185(m)		0	0	0
ppm Water ppm ASTM D6304* >500 33 13 26 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 111 93 81 Particles >6µm ASTM D7647 >1300 42 43 24 Particles >14µm ASTM D7647 >160 10 11 3 Particles >14µm ASTM D7647 >40 4 4 1 Particles >21µm ASTM D7647 >10 1 0 0 Particles >38µm ASTM D7647 >3 0 0 0	Potassium		ASTM D5185(m)	>20	<1	<1	<1
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >5000 111 93 81 Particles >6μm ASTM D7647 >1300 42 43 24 Particles >14μm ASTM D7647 >160 10 11 3 Particles >14μm ASTM D7647 >40 4 4 1 Particles >21μm ASTM D7647 >10 1 0 0 Particles >38μm ASTM D7647 >3 0 0 0	Water	%	ASTM D6304*	>0.05	0.003	0.001	0.003
Particles >4μm ASTM D7647 >5000 111 93 81 Particles >6μm ASTM D7647 >1300 42 43 24 Particles >6μm ASTM D7647 >160 10 11 3 Particles >14μm ASTM D7647 >40 4 4 1 Particles >21μm ASTM D7647 >10 1 0 0 Particles >38μm ASTM D7647 >3 0 0 0	ppm Water	ppm	ASTM D6304*	>500	33	13	26
Particles >6μm ASTM D7647 >1300 42 43 24 Particles >14μm ASTM D7647 >160 10 11 3 Particles >14μm ASTM D7647 >40 4 4 1 Particles >21μm ASTM D7647 >40 4 1 Particles >38μm ASTM D7647 >10 1 0 0 Particles >38μm ASTM D7647 >3 0 0 0	FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >14μm ASTM D7647 >160 10 11 3 Particles >21μm ASTM D7647 >40 4 1 Particles >38μm ASTM D7647 >10 1 0 0 Particles >71μm ASTM D7647 >3 0 0 0	Particles >4µm		ASTM D7647	>5000	111	93	81
Particles >21μm ASTM D7647 >40 4 4 1 Particles >38μm ASTM D7647 >10 1 0 0 Particles >71μm ASTM D7647 >3 0 0 0	Particles >6µm		ASTM D7647	>1300	42	43	24
Particles >38μm ASTM D7647 >10 1 0 0 Particles >71μm ASTM D7647 >3 0 0 0	Particles >14µm		ASTM D7647	>160	10	11	3
Particles >71μm ASTM D7647 >3 0 0 0	Particles >21µm		ASTM D7647	>40	4	4	1
	Particles >38µm		ASTM D7647	>10	1	0	0
Oil Cleanliness ISO 4406 (c) >19/17/14 14/13/10 14/13/11 14/12/9	Particles >71µm		ASTM D7647	>3	0	0	0
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	14/13/10	14/13/11	14/12/9

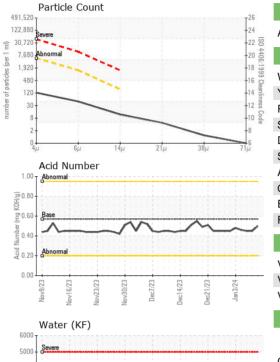


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OIL ANALYSIS REPORT



FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.50	0.45	0.45
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	63.1	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	8	method	limit/base	current	history1	history2

Color

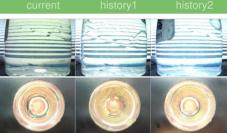
Bottom

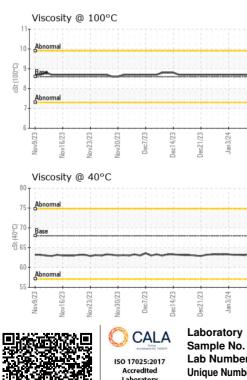
Jec21/23

Jec14/23

Dec7/73

Jan3/24 -





: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 WearCheck Quality Control Sample Results : WC0894115 Recieved : 09 Jan 2024 Lab Number : 02607491 Diagnosed : 11 Jan 2024 Burlington, ON Unique Number : 5708577 Diagnostician : Wes Davis CA Laboratory Test Package : IND 2 (Additional Tests: KF, KV100, TAN Man, VI) Contact: Dorian Anderson To discuss this sample report, contact Customer Service at 1-800-268-2131. dorian.anderson@wearcheck.com Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (289)291-4652 Validity of results and interpretation are based on the sample and information as supplied. F: (905)569-8605