

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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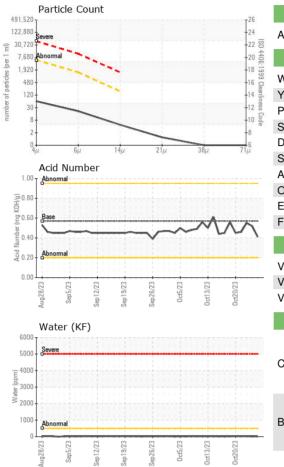


2023 Sep2023 Sep2023 Sep2023 Sep2023 Oct2023 Oct2023

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0865593	WC0865592	WC0865591
Sample Date		Client Info		26 Oct 2023	25 Oct 2023	24 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	<1
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	1	0	<1
Copper	ppm	ASTM D5185(m)	>20	<1	0	<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	<1	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	0
Calcium	ppm	ASTM D5185(m)	200	42	47	44
Phosphorus	ppm	ASTM D5185(m)	300	328	338	349
Zinc	ppm	ASTM D5185(m)	370	406	422	442
Sulfur	ppm	ASTM D5185(m)	2500	696	696	908
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	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
Water	%	ASTM D6304*	>0.05	0.001	0.001	0.003
ppm Water	ppm	ASTM D6304*	>500	13.4	12.7	26.1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	54	85	368
Particles >6µm		ASTM D7647	>1300	18	33	95
Particles >14µm		ASTM D7647	>160	4	5	7
Particles >21µm		ASTM D7647	>40	1	2	2
			. 10	•	0	1
Particles >38µm		ASTM D7647	>10	0	0	1
Particles >38µm Particles >71µm		ASTM D7647 ASTM D7647	>3	0	0	0



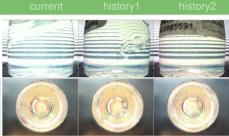
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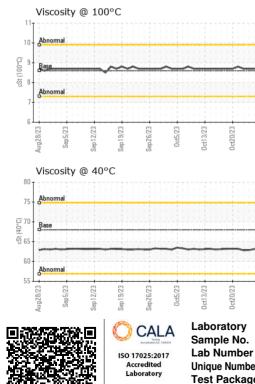


FLUID DEGRADA	TION	method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.41	0.52	0.55		
VISUAL		method	limit/base	current	history1	history2		
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE		
Precipitate	scalar	Visual*	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	62.9	62.8		
Visc @ 100°C	cSt	ASTM D7279(m)	8.6	8.7	8.7	8.7		
Viscosity Index (VI)	Scale	ASTM D2270*	96	110	111	111		
SAMPLE IMAGES	3	method	limit/base	current	history1	history2		

Color

Bottom





atory	: WearCheck - C8	8-1175 Appleby Line	e, Burlington, ON	L7L 5H9 WearCheck Quality Control Sample Results	
le No.	: WC0865593	Received	: 26 Oct 2023		
umber	: 02592084	Diagnosed	: 27 Oct 2023	Burlington, ON	
Number	: 5669163	Diagnostician	: Wes Davis	CA	
ackage	: IND 2 (Addition	al Tests: KF, KV100	D, VI)	Contact: Dorian Anderson	
renort c	ontact Customer S	Service at 1-800-268	8-2131	dorian anderson@wearcheck.com	

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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