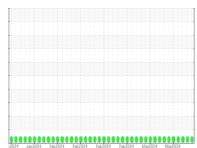


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



QC230213IND2

Component

Hydraulic System

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.

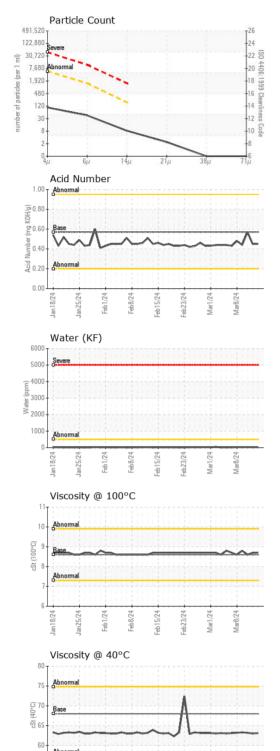
Fluid Condition

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

12024 Jand2024 Feb2024 Feb2024 Feb2024 Mod0224 Mod0224 Mod024									
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		WC0912593	WC0912592	WC0912591			
Sample Date		Client Info		14 Mar 2024	12 Mar 2024	12 Mar 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	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	0	0	<1			
Copper	ppm	ASTM D5185(m)	>20	0	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	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	<1	<1	0			
Calcium	ppm	ASTM D5185(m)	200	43	43	45			
Phosphorus	ppm	ASTM D5185(m)	300	342	339	349			
Zinc	ppm	ASTM D5185(m)	370	412	415	423			
Sulfur	ppm	ASTM D5185(m)	2500	709	719	738			
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	0	1	<1			
Water	%	ASTM D6304*	>0.05	0.003	0.002	0.003			
ppm Water	ppm	ASTM D6304*	>500	26	25	29			
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2			
Particles >4µm		ASTM D7647	>5000	91	98	135			
Particles >6µm		ASTM D7647	>1300	38	52	49			
Particles >14μm		ASTM D7647	>160	7	13	7			
Particles >21µm		ASTM D7647	>40	2	6	2			
Particles >38μm		ASTM D7647	>10	0	1	0			
Particles >71μm		ASTM D7647	>3	0	0	0			
Oil Cleanliness		ISO 4406 (c)	>19/17/14	14/12/10	14/13/11	14/13/10			



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	0.57
VISUAL		method				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	63.0	63.2
Visc @ 100°C	cSt	ASTM D7279(m)	8.6	8.7	8.7	8.6
Viscosity Index (VI)	Scale	ASTM D2270*	96	110	110	107
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					<i>I</i>	
Bottom						



CALA ISO 17025:2017 Accredited

Laboratory Sample No.

Lab Number : 02622007 Unique Number : 5747126

: WC0912593 Received

Tested Diagnosed : 14 Mar 2024

: 15 Mar 2024

: 15 Mar 2024 - Wes Davis

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

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 WearCheck Quality Control Sample Results

Burlington, ON CA

Contact: Dorian Anderson dorian.anderson@wearcheck.com

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