

PROBLEM SUMMARY

Sample Rating Trend

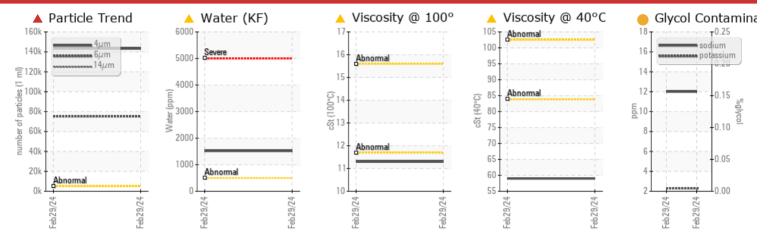
ISO

Universal Alloy - U00200 Machine Id M1 3376

Component **Hydraulic System**

{not provided} (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

The sample submitted is wet and 32 times dirtier than the ISO dirt count recommendation of 19/16/14.

PROBLEMATIC TEST RESULTS							
Sample Status				SEVERE			
Water	%	ASTM D6304*	>0.05	<u> </u>			
ppm Water	ppm	ASTM D6304*	>500	<u> </u>			
Particles >4µm		ASTM D7647	>5000	143312			
Particles >6µm		ASTM D7647	>640	75307			
Particles >14µm		ASTM D7647	>160	▲ 5219			
Particles >21µm		ASTM D7647	>40	855			
Oil Cleanliness		ISO 4406 (c)	>19/16/14	4 24/23/20			
Visc @ 40°C	cSt	ASTM D7279(m)		59.0			
Visc @ 100°C	cSt	ASTM D7279(m)		<u> </u>			

Customer Id: CHECOB Sample No.: E30001553 Lab Number: 02621440 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Tatiana Sorkina +1 (800)263-3939 tsorkina@e360s.ca

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



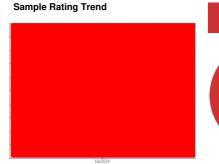
OIL ANALYSIS REPORT

Universal Alloy - U00200 M₁ 3376

Component

Hydraulic System

{not provided} (--- GAL)





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Recommendation

The sample submitted is wet and 32 times dirtier than the ISO dirt count recommendation of 19/16/14.

Wear

Copper and iron ppm levels are noted.

Contamination

Water and ppm water contamination levels are abnormal. Oil Cleanliness are abnormally high. Particles >14µm are abnormally high. Particles >21µm are abnormally high. Particles >4µm are abnormally high. Particles >6µm are abnormally high.

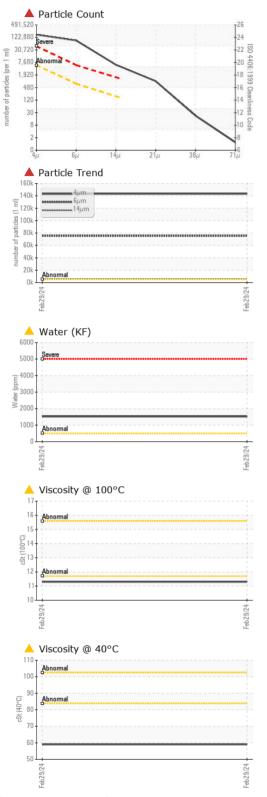
▲ Fluid Condition

Visc @ 100°C is abnormally high. Visc @ 40°C is abnormally high. Sodium ppm levels are notably

				Feb 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Batch #		Client Info		Mobile		
Machine ID		Client Info		Light Press		
Department		Client Info		Production		
Sample From		Client Info		Machine		
Production Stage		Client Info		Initial		
Sent to WC		Client Info		03/08/2024		
Sample Number		Client Info		E30001553		
Sample Date		Client Info		29 Feb 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	<u> </u>		
Chromium	ppm	ASTM D5185(m)	>20	<1		
Nickel	ppm	ASTM D5185(m)	>20	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>20	3		
Lead	ppm	ASTM D5185(m)	>20	7		
Copper	ppm	ASTM D5185(m)	>20	9 39		
Tin	ppm	ASTM D5185(m)	>20	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		1		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		<1		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		7		
Calcium	ppm	ASTM D5185(m)		45		
Phosphorus	ppm	ASTM D5185(m)		375		
Zinc	ppm	ASTM D5185(m)		334		
Sulfur	ppm	ASTM D5185(m)		951		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	3		
Sodium	ppm	ASTM D5185(m)		<u> </u>		
Potassium	ppm	ASTM D5185(m)	>20	2		
Water	%	ASTM D6304*	>0.05	<u> </u>		
ppm Water	ppm	ASTM D6304*	>500	1519		



OIL ANALYSIS REPORT



FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
	1200	ASTM D7647	>5000	▲ 143312		
Particles >4µm Particles >6µm		ASTM D7647		▲ 75307		
Particles >14µm		ASTM D7647	>160	▲ 5219		
Particles >21μm		ASTM D7647		▲ 855		
Particles >38µm		ASTM D7647	>10	<u>19</u>		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>19/16/14	24/23/20		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
			IIIIII/Dase		,	
Acid Number (AN)	mg KOH/g	ASTM D974*		0.38		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*	>0.05	NEG		
Free Water	scalar	Visual*		NEG		
FLUID PROPERT	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		59.0		
Visc @ 100°C	cSt	ASTM D7279(m)		<u> </u>		
Viscosity Index (VI)	Scale	ASTM D2270*		188		
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
0-1						
Color					no image	no image
				(5)		
Bottom				((6))	no image	no image



CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Lab Number : 02621440

: E30001553

Received **Tested** Unique Number : 5746559

: 13 Mar 2024 Diagnosed : 14 Mar 2024 - Tatiana Sorkina

: 12 Mar 2024

Test Package : IND 2 (Additional Tests: KF, KV100, TAN Man, VI) To discuss this sample report, contact Customer Service at 1-905-372-2251.

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.

Environmental 360 Solutions Ltd.

Contact/Location: Tatiana Sorkina - CHECOB

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