

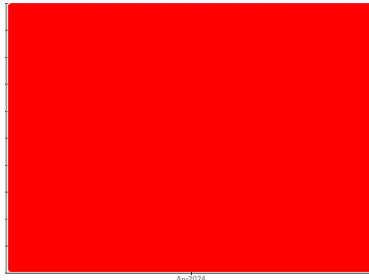
PROBLEM SUMMARY

Sample Rating Trend

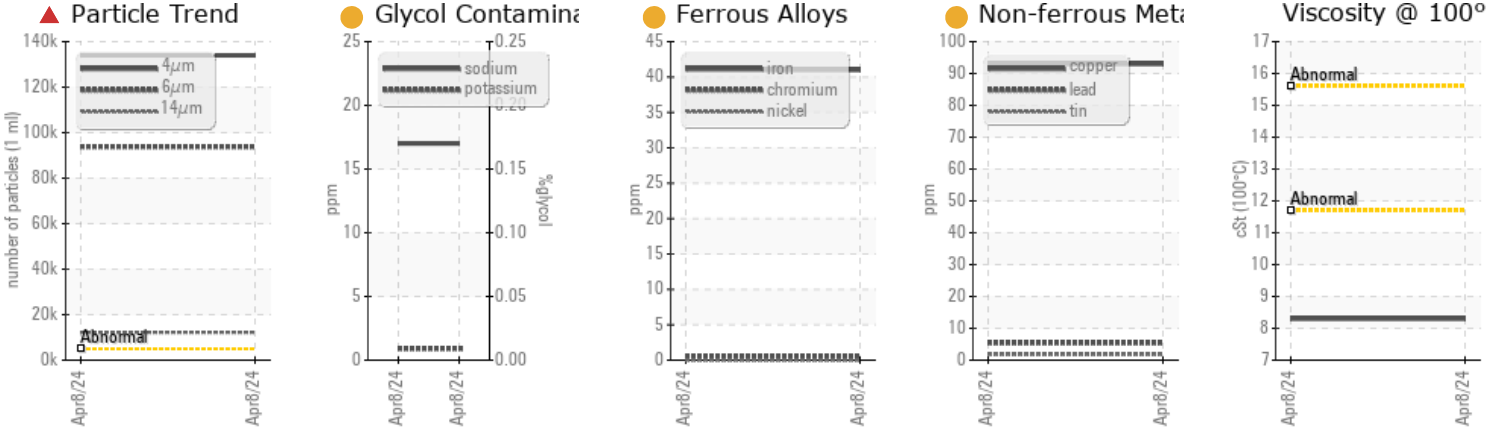
ISO



Area
Astro Shapes - A09300
 Machine Id
M1 3389
 Component
Hydraulic System
 Fluid
{not provided} (--- GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status	ASTM D7647	ISO 4406 (c)	SEVERE	---	---
Particles >4µm	>5000	▲ 133970	---	---	---
Particles >6µm	>640	▲ 93782	---	---	---
Particles >14µm	>160	▲ 12203	---	---	---
Particles >21µm	>40	▲ 2064	---	---	---
Particles >38µm	>10	▲ 57	---	---	---
Oil Cleanliness	>19/16/14	▲ 24/24/21	---	---	---

Customer Id: CHECOB
 Sample No.: E30001821
 Lab Number: 02628505
 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
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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

Sample Rating Trend

ISO

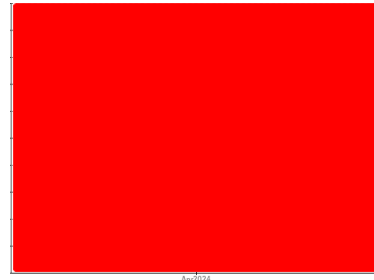
Area

Astro Shapes - A09300

Machine Id
M1 3389

Component
Hydraulic System

Fluid
{not provided} (--- GAL)



DIAGNOSIS

▲ Recommendation

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

● Wear

Copper and iron ppm levels are noted.

▲ Contamination

Particles >14µm are severely high. Particles >21µm are severely high. Particles >6µm are severely high. Oil Cleanliness are severely high. Particles >4µm are severely high. Particles >38µm are abnormally high.

● Fluid Condition

Sodium ppm levels are notably high. Viscosity of sample indicates oil is within ISO 68 range, advise investigate.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Batch #	Client Info		Mobile	---	---
Department	Client Info		Production	---	---
Sample From	Client Info		Machine	---	---
Production Stage	Client Info		Initial	---	---
Sent to WC	Client Info		04/10/2024	---	---
Sample Number	Client Info		E30001821	---	---
Sample Date	Client Info		08 Apr 2024	---	---
Machine Age	kms	Client Info	0	---	---
Oil Age	kms	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	● 41	---	---
Chromium	ppm	ASTM D5185(m) >20	<1	---	---
Nickel	ppm	ASTM D5185(m) >20	0	---	---
Titanium	ppm	ASTM D5185(m)	0	---	---
Silver	ppm	ASTM D5185(m)	0	---	---
Aluminum	ppm	ASTM D5185(m) >20	12	---	---
Lead	ppm	ASTM D5185(m) >20	5	---	---
Copper	ppm	ASTM D5185(m) >20	● 93	---	---
Tin	ppm	ASTM D5185(m) >20	2	---	---
Antimony	ppm	ASTM D5185(m)	0	---	---
Vanadium	ppm	ASTM D5185(m)	0	---	---
Beryllium	ppm	ASTM D5185(m)	0	---	---
Cadmium	ppm	ASTM D5185(m)	0	---	---

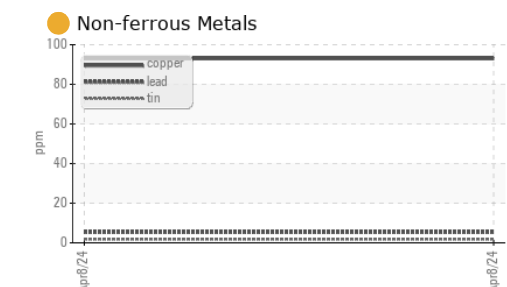
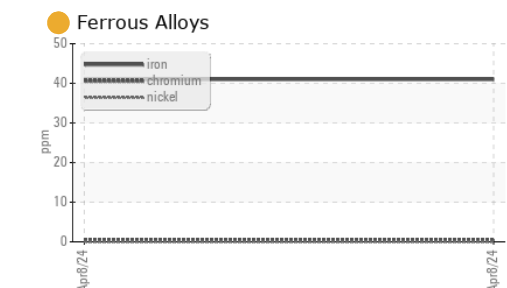
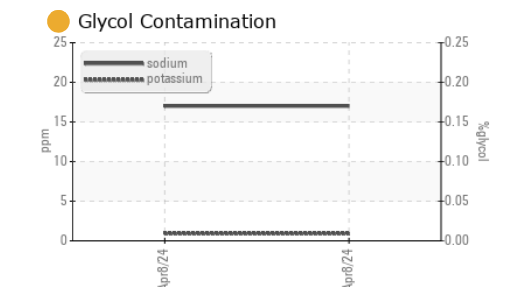
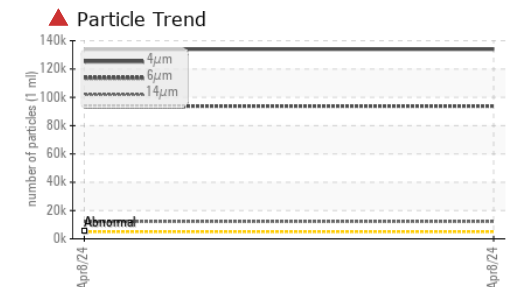
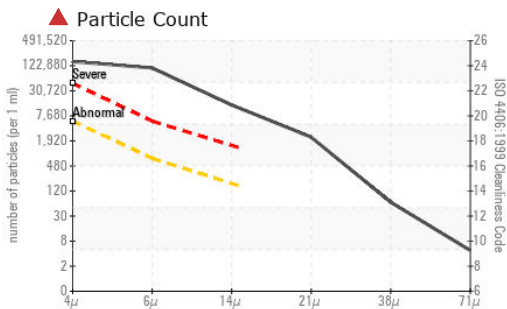
ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<1	---	---
Barium	ppm	ASTM D5185(m)	0	---	---
Molybdenum	ppm	ASTM D5185(m)	0	---	---
Manganese	ppm	ASTM D5185(m)	<1	---	---
Magnesium	ppm	ASTM D5185(m)	6	---	---
Calcium	ppm	ASTM D5185(m)	26	---	---
Phosphorus	ppm	ASTM D5185(m)	398	---	---
Zinc	ppm	ASTM D5185(m)	224	---	---
Sulfur	ppm	ASTM D5185(m)	2403	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	1	---	---
Sodium	ppm	ASTM D5185(m)	● 17	---	---
Potassium	ppm	ASTM D5185(m) >20	<1	---	---
Water	%	ASTM D6304* >0.05	0.033	---	---
ppm Water	ppm	ASTM D6304* >500	330	---	---

OIL ANALYSIS REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 133970	---	---
Particles >6µm	ASTM D7647	>640	▲ 93782	---	---
Particles >14µm	ASTM D7647	>160	▲ 12203	---	---
Particles >21µm	ASTM D7647	>40	▲ 2064	---	---
Particles >38µm	ASTM D7647	>10	▲ 57	---	---
Particles >71µm	ASTM D7647	>3	▲ 4	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16/14	▲ 24/24/21	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.26	---	---

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	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	VLITE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.05	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	60.9	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	8.3	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	105	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : E30001821
Lab Number : 02628505
Unique Number : 5761637
Test Package : IND 2 (Additional Tests: KF, KV100, VI)
Received : 12 Apr 2024
Tested : 15 Apr 2024
Diagnosed : 15 Apr 2024 - Tatiana Sorkina

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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.