

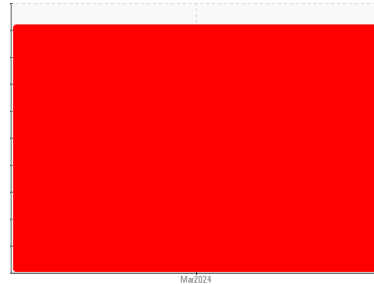
PROBLEM SUMMARY

Sample Rating Trend

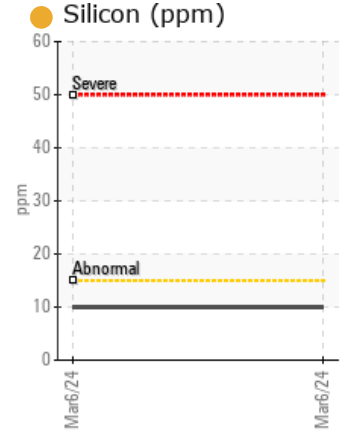
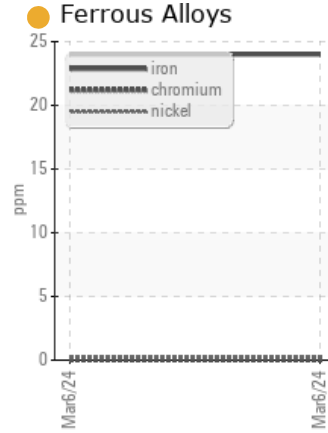
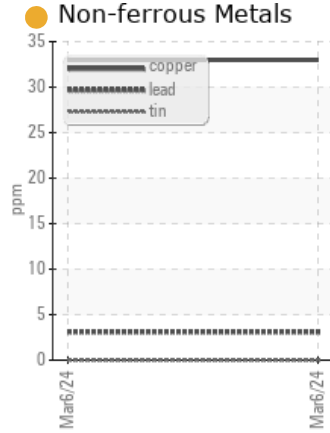
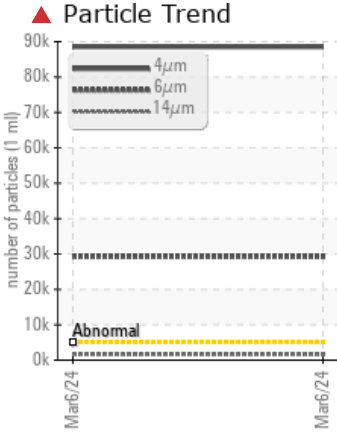
ISO



Area
Core Molding - C16700
 Machine Id
M1 3381
 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			SEVERE	---	---
Particles >4µm	ASTM D7647	>5000	▲ 88502	---	---
Particles >6µm	ASTM D7647	>640	▲ 29261	---	---
Particles >14µm	ASTM D7647	>160	▲ 1614	---	---
Particles >21µm	ASTM D7647	>40	▲ 265	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16/14	▲ 24/22/18	---	---

Customer Id: CHECOB
 Sample No.: E30001558
 Lab Number: 02621434
 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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 Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



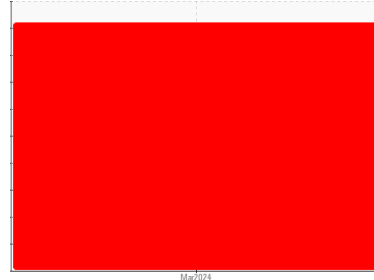
OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area
Core Molding - C16700
 Machine Id
M1 3381
 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**
 Oil Cleanliness are abnormally high. Particles >4µm are abnormally high. Particles >6µm are abnormally high. Particles >14µm are abnormally high. Particles >21µm are abnormally high. Silicon ppm levels are notably high.

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		03/08/2024	---	---
Sample Number	Client Info		E30001558	---	---
Sample Date	Client Info		06 Mar 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	● 24	---	---
Chromium	ppm	ASTM D5185(m) >20	0	---	---
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	3	---	---
Copper	ppm	ASTM D5185(m) >20	● 33	---	---
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	---	---

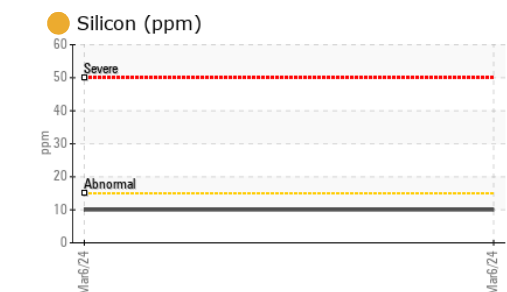
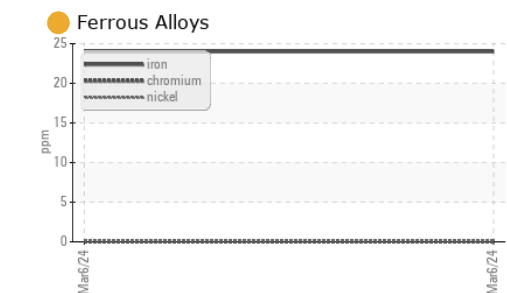
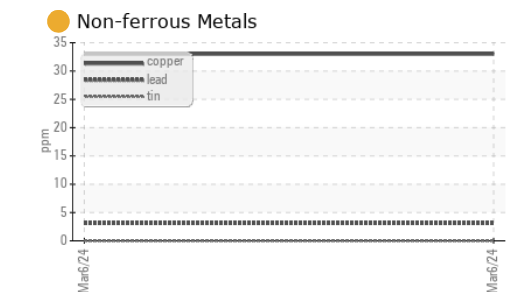
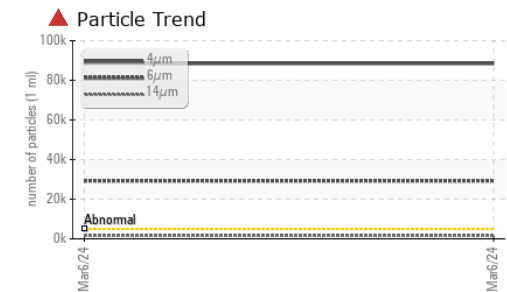
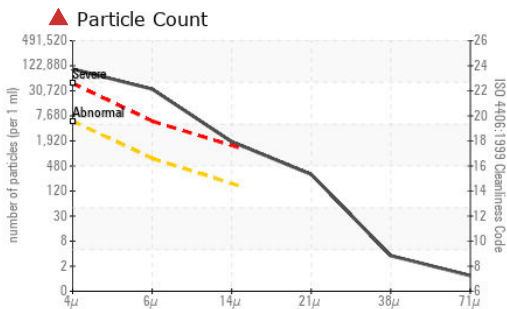
ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	---	---
Barium	ppm	ASTM D5185(m)	<1	---	---
Molybdenum	ppm	ASTM D5185(m)	0	---	---
Manganese	ppm	ASTM D5185(m)	0	---	---
Magnesium	ppm	ASTM D5185(m)	4	---	---
Calcium	ppm	ASTM D5185(m)	33	---	---
Phosphorus	ppm	ASTM D5185(m)	834	---	---
Zinc	ppm	ASTM D5185(m)	449	---	---
Sulfur	ppm	ASTM D5185(m)	2788	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	● 10	---	---
Sodium	ppm	ASTM D5185(m)	<1	---	---
Potassium	ppm	ASTM D5185(m) >20	2	---	---
Water	%	ASTM D6304* >0.05	0.016	---	---
ppm Water	ppm	ASTM D6304* >500	160	---	---

OIL ANALYSIS REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 88502	---	---
Particles >6µm	ASTM D7647	>640	▲ 29261	---	---
Particles >14µm	ASTM D7647	>160	▲ 1614	---	---
Particles >21µm	ASTM D7647	>40	▲ 265	---	---
Particles >38µm	ASTM D7647	>10	3	---	---
Particles >71µm	ASTM D7647	>3	1	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16/14	▲ 24/22/18	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.79	---	---

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 PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	71.4	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	9.4	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	108	---	---

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. : E30001558 **Received** : 12 Mar 2024
Lab Number : 02621434 **Tested** : 13 Mar 2024
Unique Number : 5746553 **Diagnosed** : 14 Mar 2024 - Tatiana Sorkina
Test Package : IND 2 (Additional Tests: KF, KV100, TAN Man, VI)

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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.