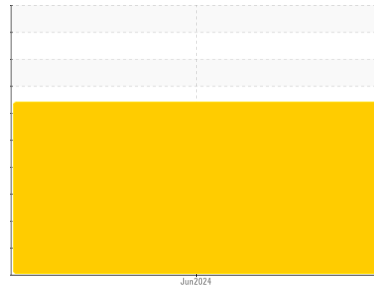




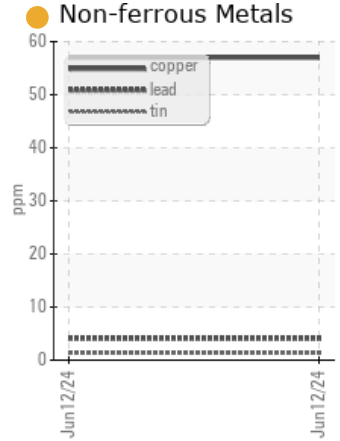
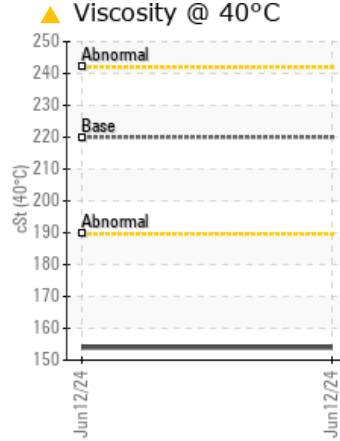
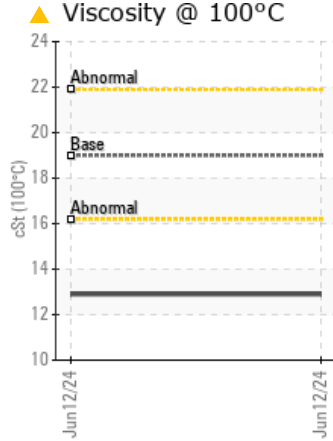
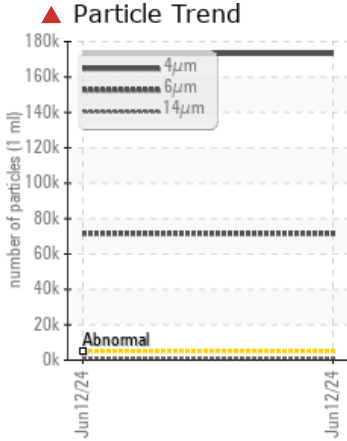
PROBLEM SUMMARY

Area
Flex N Gate - F00700
 Machine Id
RB026
 Component
Gear Unit
 Fluid
GEAR OIL ISO 220 (--- GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY



RECOMMENDATION

The sample submitted is 64 times dirtier than the ISO dirt count recommendation of 19/16/14.
 Viscosity at 40 °C is out of spec (220 ± 22 cSt).

PROBLEMATIC TEST RESULTS

Sample Status	ASTM D7647	SEVERE	---	---
Particles >4µm	>5000	▲ 173192	---	---
Particles >6µm	>640	▲ 71530	---	---
Particles >14µm	>160	▲ 1114	---	---
Particles >21µm	>40	▲ 96	---	---
Oil Cleanliness	ISO 4406 (c) >19/16/14	▲ 25/23/17	---	---
Visc @ 40°C	cSt ASTM D7279(m) 220	▲ 154	---	---
Visc @ 100°C	cSt ASTM D7279(m) 19.0	▲ 12.9	---	---
Viscosity Index (VI)	Scale ASTM D2270* 96	▲ 68	---	---

Customer Id: CHECOB
 Sample No.: E30002420
 Lab Number: 02642942
 Test Package: IND 2



To manage this report scan the QR code

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

RECOMMENDED ACTIONS

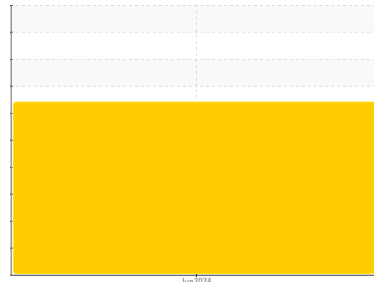
There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area

Flex N Gate - F00700

Machine Id

RB026

Component

Gear Unit

Fluid

GEAR OIL ISO 220 (--- GAL)

DIAGNOSIS

▲ Recommendation

The sample submitted is 64 times dirtier than the ISO dirt count recommendation of 19/16/14. Viscosity at 40 °C is out of spec (220 ± 22 cSt).

● Wear

Copper ppm levels are noted.

▲ Contamination

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

▲ Fluid Condition

Visc @ 100°C is abnormally low. Visc @ 40°C is abnormally low. Viscosity Index (VI) is abnormally low.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Machine ID	Client Info		Press B3	---	---
Department	Client Info		Sales	---	---
Sample From	Client Info		Machine	---	---
Production Stage	Client Info		Initial	---	---
Sent to WC	Client Info		06/17/2024	---	---
Sample Number	Client Info		E30002420	---	---
Sample Date	Client Info		12 Jun 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) >150	25	---	---
Chromium	ppm	ASTM D5185(m) >10	0	---	---
Nickel	ppm	ASTM D5185(m) >10	<1	---	---
Titanium	ppm	ASTM D5185(m)	0	---	---
Silver	ppm	ASTM D5185(m)	0	---	---
Aluminum	ppm	ASTM D5185(m) >25	<1	---	---
Lead	ppm	ASTM D5185(m) >100	4	---	---
Copper	ppm	ASTM D5185(m) >50	57	---	---
Tin	ppm	ASTM D5185(m) >10	1	---	---
Antimony	ppm	ASTM D5185(m) >5	0	---	---
Vanadium	ppm	ASTM D5185(m)	0	---	---
Beryllium	ppm	ASTM D5185(m)	0	---	---
Cadmium	ppm	ASTM D5185(m)	0	---	---

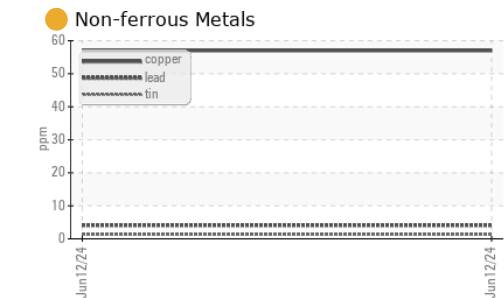
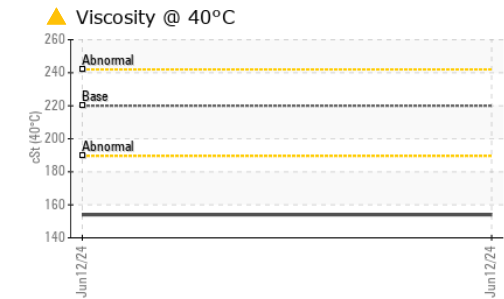
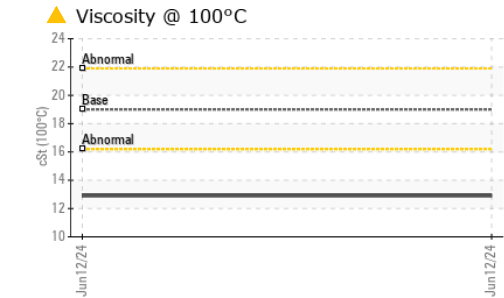
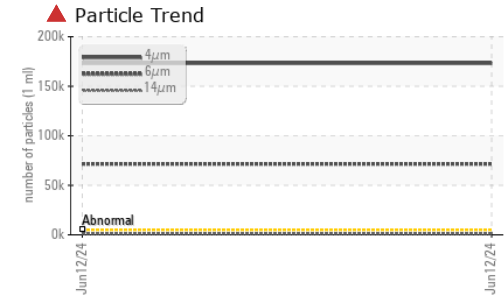
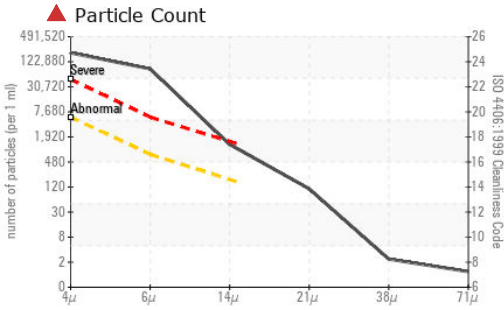
ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 50	1	---	---
Barium	ppm	ASTM D5185(m) 15	<1	---	---
Molybdenum	ppm	ASTM D5185(m) 15	1	---	---
Manganese	ppm	ASTM D5185(m)	<1	---	---
Magnesium	ppm	ASTM D5185(m) 50	<1	---	---
Calcium	ppm	ASTM D5185(m) 50	4	---	---
Phosphorus	ppm	ASTM D5185(m) 350	136	---	---
Zinc	ppm	ASTM D5185(m) 100	59	---	---
Sulfur	ppm	ASTM D5185(m) 12500	2983	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	<1	---	---
Sodium	ppm	ASTM D5185(m)	<1	---	---
Potassium	ppm	ASTM D5185(m) >20	1	---	---
Water	%	ASTM D6304* >0.1	0.014	---	---
ppm Water	ppm	ASTM D6304* >1000	147	---	---

OIL ANALYSIS REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 173192	---	---
Particles >6µm	ASTM D7647	>640	▲ 71530	---	---
Particles >14µm	ASTM D7647	>160	▲ 1114	---	---
Particles >21µm	ASTM D7647	>40	▲ 96	---	---
Particles >38µm	ASTM D7647	>10	2	---	---
Particles >71µm	ASTM D7647	>3	1	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16/14	▲ 25/23/17	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.85	0.31	---	---

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*	>0.1	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	220	▲ 154	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	19.0	▲ 12.9	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	96	▲ 68	---	---

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. : E30002420
Lab Number : 02642942
Unique Number : 5800481
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

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 T: (800)263-3939
 F: (905)373-4950

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.