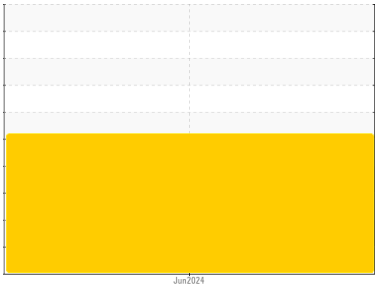
PROBLEM SUMMARY

Sample Rating Trend

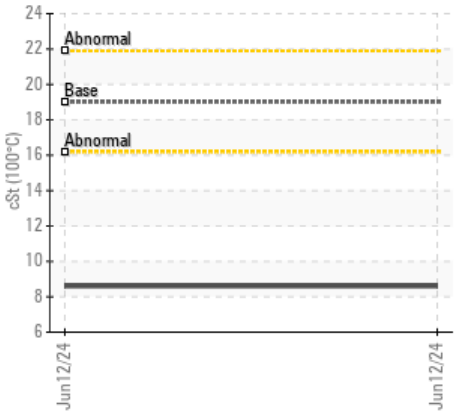


ISO

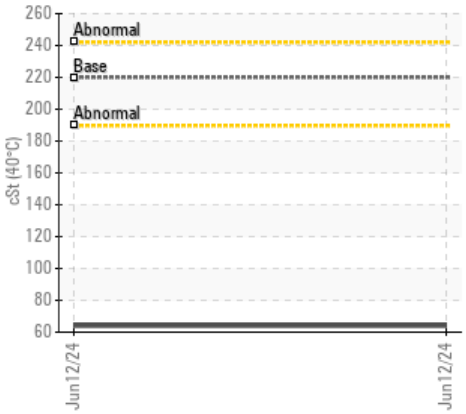
Area
Flex N Gate - F00700
Machine Id
RB027
Component
Gear Unit
Fluid
GEAR OIL ISO 220 (--- GAL)

COMPONENT CONDITION SUMMARY

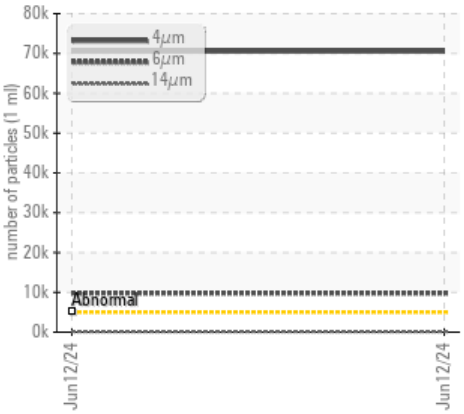
▲ Viscosity @ 100°C



▲ Viscosity @ 40°C



▲ Particle Trend



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	---	---
Particles >4µm		ASTM D7647	>5000	▲ **70526**	---	---
Particles >6µm		ASTM D7647	>640	▲ **9795**	---	---
Oil Cleanliness		ISO 4406 (c)	>19/16/14	▲ **23/20/14**	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	220	▲ **64.1**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	19.0	▲ **8.6**	---	---

Customer Id: CHECOB
Sample No.: E30002421
Lab Number: 02642941
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

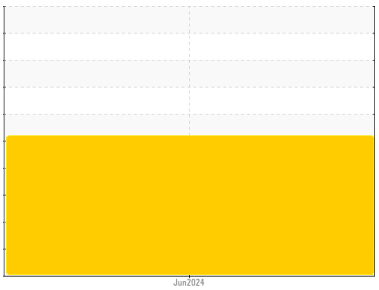
RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
Flex N Gate - F00700
Machine Id
RB027
Component
Gear Unit
Fluid
GEAR OIL ISO 220 (--- GAL)

DIAGNOSIS

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

Contamination
Particles >6µm are severely high. Particles >4µm and oil cleanliness are severely high.

Fluid Condition
Visc @ 100°C is abnormally low. Visc @ 40°C is abnormally low.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Machine ID		Client Info		**Press B5**	---	---
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		**E30002421**	---	---
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**	---	---

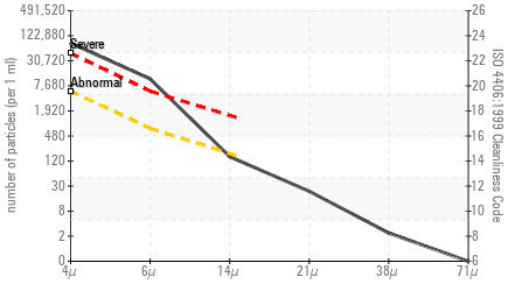
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	**3**	---	---
Chromium	ppm	ASTM D5185(m)	>10	**0**	---	---
Nickel	ppm	ASTM D5185(m)	>10	**<1**	---	---
Titanium	ppm	ASTM D5185(m)		**0**	---	---
Silver	ppm	ASTM D5185(m)		**<1**	---	---
Aluminum	ppm	ASTM D5185(m)	>25	**0**	---	---
Lead	ppm	ASTM D5185(m)	>100	**2**	---	---
Copper	ppm	ASTM D5185(m)	>50	**18**	---	---
Tin	ppm	ASTM D5185(m)	>10	**0**	---	---
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	**0**	---	---
Molybdenum	ppm	ASTM D5185(m)	15	**0**	---	---
Manganese	ppm	ASTM D5185(m)		**0**	---	---
Magnesium	ppm	ASTM D5185(m)	50	**<1**	---	---
Calcium	ppm	ASTM D5185(m)	50	**2**	---	---
Phosphorus	ppm	ASTM D5185(m)	350	**484**	---	---
Zinc	ppm	ASTM D5185(m)	100	**586**	---	---
Sulfur	ppm	ASTM D5185(m)	12500	**1204**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

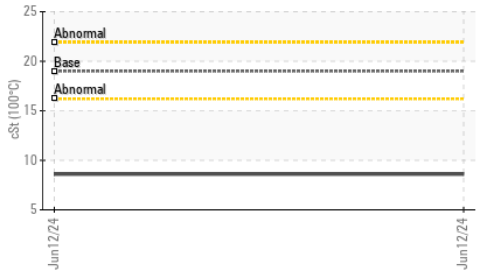
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	**0**	---	---
Sodium	ppm	ASTM D5185(m)		**<1**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**<1**	---	---
Water	%	ASTM D6304*	>0.1	**0.001**	---	---
ppm Water	ppm	ASTM D6304*	>1000	**8**	---	---

OIL ANALYSIS REPORT

Particle Count

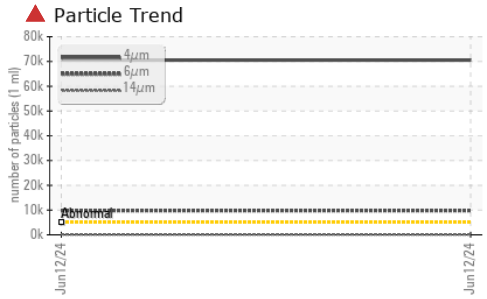


Viscosity @ 100°C

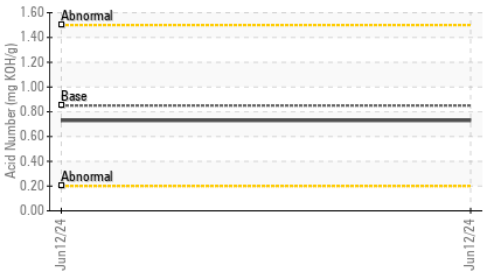


Viscosity @ 40°C

Particle Trend



Acid Number



FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **70526**	---	---
Particles >6µm		ASTM D7647	>640	▲ **9795**	---	---
Particles >14µm		ASTM D7647	>160	**135**	---	---
Particles >21µm		ASTM D7647	>40	**20**	---	---
Particles >38µm		ASTM D7647	>10	**2**	---	---
Particles >71µm		ASTM D7647	>3	**0**	---	---
Oil Cleanliness		ISO 4406 (c)	>19/16/14	▲ **23/20/14**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.85	**0.73**	---	---

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	▲ **64.1**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	19.0	▲ **8.6**	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	96	**105**	---	---

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

ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : E30002421 **Received** : 19 Jun 2024
Lab Number : 02642941 **Tested** : 20 Jun 2024
Unique Number : 5800480 **Diagnosed** : 20 Jun 2024 - Tatiana Sorkina
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, 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.

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