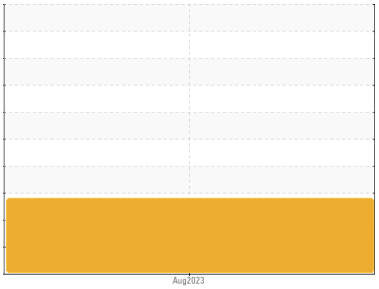
PROBLEM SUMMARY

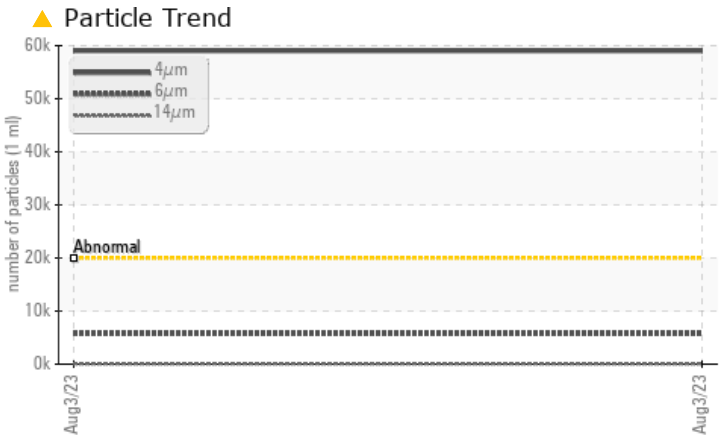
Sample Rating Trend

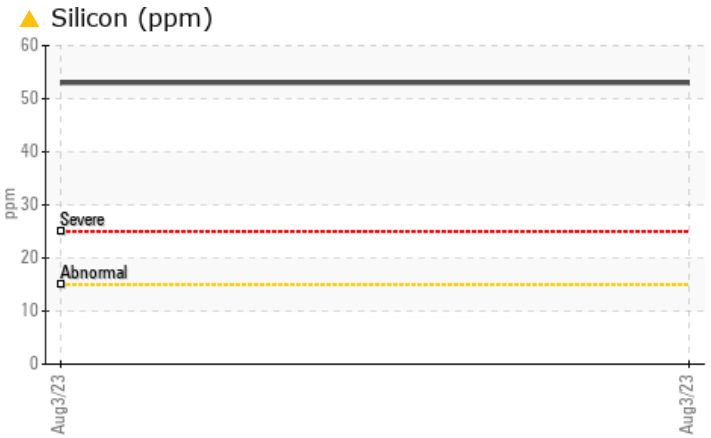


DIRT

Area
GFL 122 Arrow Road - C13100
Machine Id
AG185
Component
Gear Motor
Fluid
NOT GIVEN (--- GAL)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

This is a baseline read-out on the submitted sample.
(Customer Sample Comment: IND2-ICP KV AN KF)

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	---	---
Silicon	ppm	ASTM D5185(m)	>15	▲ **53**	---	---
Particles >4µm		ASTM D7647	>20000	▲ **59009**	---	---
Particles >6µm		ASTM D7647	>5000	▲ **5733**	---	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ **23/20/13**	---	---

Customer Id: CHECOB
Sample No.: E30000100
Lab Number: 02576554
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

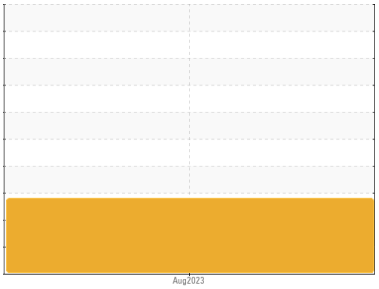
RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



DIRT

Area
GFL 122 Arrow Road - C13100
Machine Id
AG185
Component
Gear Motor
Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation
This is a baseline read-out on the submitted sample. (Customer Sample Comment: IND2-ICP KV AN KF)

Wear
{not applicable}

Contamination
Particles >4µm and oil cleanliness are abnormally high. Silicon ppm levels are notably high. Particles >6µm are notably high.

Fluid Condition
{not applicable}

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**E30000100**	---	---
Sample Date		Client Info		**03 Aug 2023**	---	---
Machine Age	hrs	Client Info		**0**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**Not Changd**	---	---
Sample Status				**ABNORMAL**	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	**<1.0**	---	---
Glycol		WC Method		**NEG**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>30	**10**	---	---
Chromium	ppm	ASTM D5185(m)	>10	**0**	---	---
Nickel	ppm	ASTM D5185(m)	>5	**0**	---	---
Titanium	ppm	ASTM D5185(m)		**<1**	---	---
Silver	ppm	ASTM D5185(m)	>5	**0**	---	---
Aluminum	ppm	ASTM D5185(m)	>20	**<1**	---	---
Lead	ppm	ASTM D5185(m)	>10	**0**	---	---
Copper	ppm	ASTM D5185(m)	>25	**<1**	---	---
Tin	ppm	ASTM D5185(m)	>5	**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**	---	---

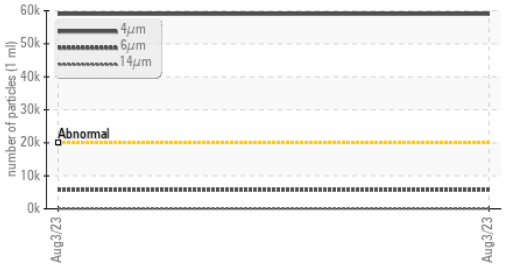
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**20**	---	---
Barium	ppm	ASTM D5185(m)		**<1**	---	---
Molybdenum	ppm	ASTM D5185(m)		**0**	---	---
Manganese	ppm	ASTM D5185(m)		**0**	---	---
Magnesium	ppm	ASTM D5185(m)		**<1**	---	---
Calcium	ppm	ASTM D5185(m)		**3**	---	---
Phosphorus	ppm	ASTM D5185(m)		**329**	---	---
Zinc	ppm	ASTM D5185(m)		**4**	---	---
Sulfur	ppm	ASTM D5185(m)		**13751**	---	---
Lithium	ppm	ASTM D5185(m)		**2**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	▲ **53**	---	---
Sodium	ppm	ASTM D5185(m)		**<1**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**<1**	---	---
Water	%	ASTM D6304*	>0.1	**0.002**	---	---
ppm Water	ppm	ASTM D6304*	>1000	**24.8**	---	---

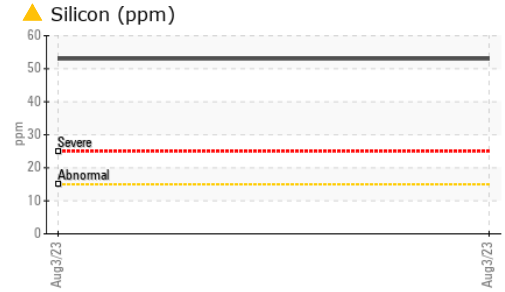
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0**	---	---
Nitration	Abs/cm	ASTM D7624*	>20	**3.5**	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	**14.1**	---	---

OIL ANALYSIS REPORT

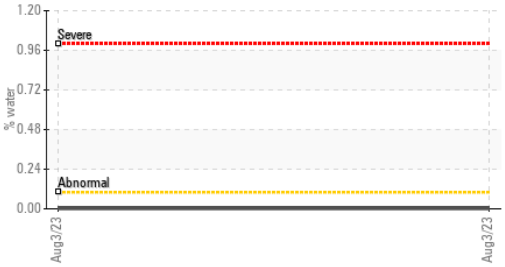
Particle Trend



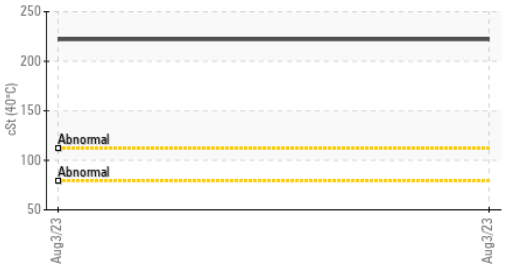
Silicon (ppm)



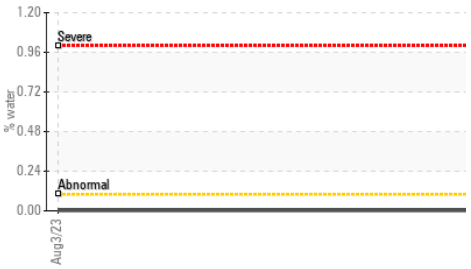
Water



Viscosity @ 40°C



Water



FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	▲ **59009**	---	---
Particles >6µm		ASTM D7647	>5000	▲ **5733**	---	---
Particles >14µm		ASTM D7647	>640	**74**	---	---
Particles >21µm		ASTM D7647	>160	**12**	---	---
Particles >38µm		ASTM D7647	>40	**2**	---	---
Particles >71µm		ASTM D7647	>10	**1**	---	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ **23/20/13**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**4.3**	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*		**0.61**	---	---

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**	---	---

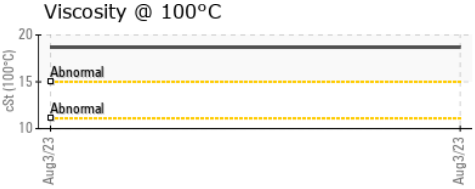
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		**222**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		**18.7**	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		**93**	---	---

GRAPHS

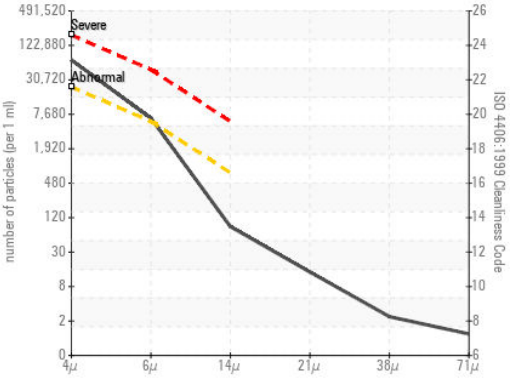
Ferrous Alloys

Non-ferrous Metals

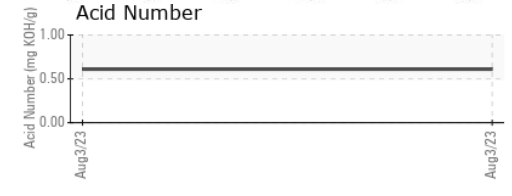
Viscosity @ 100°C



Particle Count



Acid Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : E30000100 **Received** : 17 Aug 2023
Lab Number : 02576554 **Diagnosed** : 22 Aug 2023
Unique Number : 5629614 **Diagnostician** : Tatiana Sorkina
Test Package : IND 2 (Additional Tests: KF, KV40, PrtCount, VI)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
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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