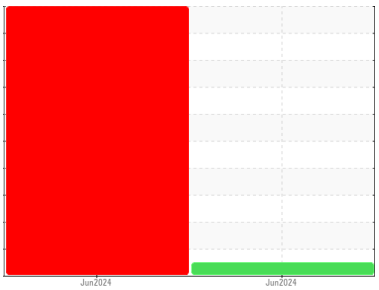
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
Highbury Canco - 888099
Machine Id
RB033
Component
Hydraulic System
Fluid
{not provided} (--- GAL)

DIAGNOSIS

Recommendation
We certify that this oil is clean, that the additives are at acceptable levels, and that it is suitable for use.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Department		Client Info		**Production**	Sales	---
Sample From		Client Info		**Tote**	Tote	---
Production Stage		Client Info		**Lab Reclaim**	Initial	---
Sent to WC		Client Info		**06/26/2024**	06/19/2024	---
Sample Number		Client Info		**E30002477**	E30002438	---
Sample Date		Client Info		**25 Jun 2024**	17 Jun 2024	---
Machine Age	hrs	Client Info		**0**	0	---
Oil Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**NORMAL**	SEVERE	---

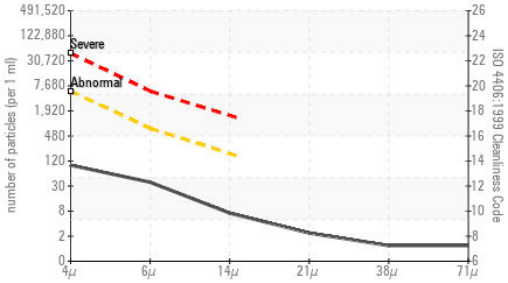
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	**7**	6	---
Chromium	ppm	ASTM D5185(m)	>20	**0**	0	---
Nickel	ppm	ASTM D5185(m)	>20	**<1**	<1	---
Titanium	ppm	ASTM D5185(m)		**0**	0	---
Silver	ppm	ASTM D5185(m)		**0**	0	---
Aluminum	ppm	ASTM D5185(m)	>20	**2**	2	---
Lead	ppm	ASTM D5185(m)	>20	**0**	0	---
Copper	ppm	ASTM D5185(m)	>20	**1**	1	---
Tin	ppm	ASTM D5185(m)	>20	**0**	0	---
Antimony	ppm	ASTM D5185(m)		**0**	0	---
Vanadium	ppm	ASTM D5185(m)		**0**	0	---
Beryllium	ppm	ASTM D5185(m)		**0**	0	---
Cadmium	ppm	ASTM D5185(m)		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**2**	3	---
Barium	ppm	ASTM D5185(m)		**<1**	<1	---
Molybdenum	ppm	ASTM D5185(m)		**0**	0	---
Manganese	ppm	ASTM D5185(m)		**1**	<1	---
Magnesium	ppm	ASTM D5185(m)		**1**	4	---
Calcium	ppm	ASTM D5185(m)		**9**	17	---
Phosphorus	ppm	ASTM D5185(m)		**1660**	1842	---
Zinc	ppm	ASTM D5185(m)		**23**	27	---
Sulfur	ppm	ASTM D5185(m)		**214**	204	---
Lithium	ppm	ASTM D5185(m)		**<1**	<1	---

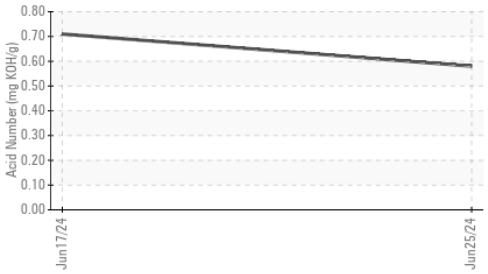
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	**<1**	2	---
Sodium	ppm	ASTM D5185(m)		**2**	<1	---
Potassium	ppm	ASTM D5185(m)	>20	**<1**	<1	---
Water	%	ASTM D6304*	>0.05	**0.033**	▲ 0.190	---
ppm Water	ppm	ASTM D6304*	>500	**338**	▲ 1909	---

OIL ANALYSIS REPORT

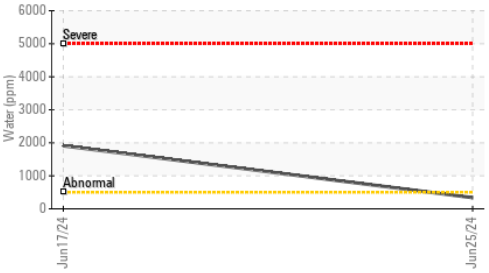
Particle Count



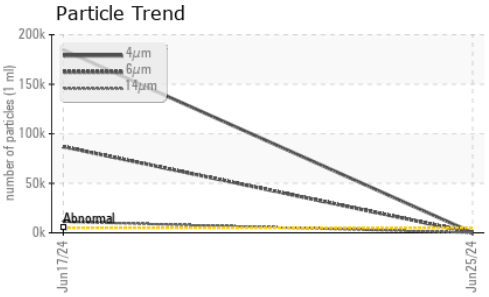
Acid Number



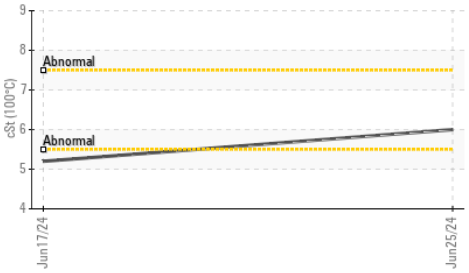
Water (KF)



Particle Trend



Viscosity @ 100°C

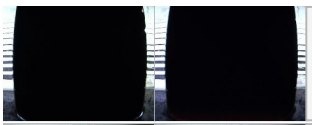


FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**84**	▲ 184713	---
Particles >6µm		ASTM D7647	>640	**33**	▲ 86982	---
Particles >14µm		ASTM D7647	>160	**6**	▲ 11200	---
Particles >21µm		ASTM D7647	>40	**2**	▲ 2548	---
Particles >38µm		ASTM D7647	>10	**1**	▲ 66	---
Particles >71µm		ASTM D7647	>3	**1**	2	---
Oil Cleanliness		ISO 4406 (c)	>19/16/14	**14/12/10**	▲ 25/24/21	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		**0.58**	0.71	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	---
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	---
Silt	scalar	Visual*	NONE	**NONE**	NONE	---
Debris	scalar	Visual*	NONE	**NONE**	NONE	---
Sand/Dirt	scalar	Visual*	NONE	**NONE**	VLITE	---
Appearance	scalar	Visual*	NORML	**NORML**	NORML	---
Odor	scalar	Visual*	NORML	**NORML**	NORML	---
Emulsified Water	scalar	Visual*	>0.05	**NEG**	NEG	---
Free Water	scalar	Visual*		**NEG**	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		**33.1**	25.8	---
Visc @ 100°C	cSt	ASTM D7279(m)		**6.0**	5.2	---
Viscosity Index (VI)	Scale	ASTM D2270*		**128**	136	---

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

ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : E30002477 **Received** : 28 Jun 2024
Lab Number : 02644590 **Tested** : 02 Jul 2024
Unique Number : 5802129 **Diagnosed** : 02 Jul 2024 - Aylwin Lee
Test Package : IND 2 (Additional Tests: KF, KV100, 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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