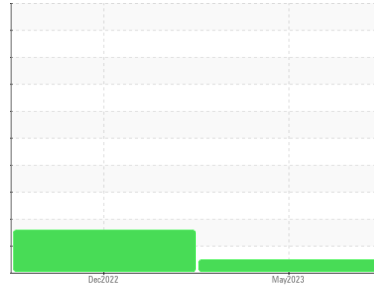




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
CPM P2 Mill

Component
Gear Case

Fluid
PETRO CANADA ENDURATEX SYNTHETIC EP 220 (26 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0765509	WC0765511	---
Sample Date	Client Info		24 May 2023	07 Dec 2022	---
Machine Age	mths	Client Info	3	0	---
Oil Age	mths	Client Info	3	450	---
Oil Changed	Client Info		Filtered	Not Changd	---
Sample Status			NORMAL	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	5	10	---
Chromium	ppm	ASTM D5185m >5	<1	0	---
Nickel	ppm	ASTM D5185m >5	0	0	---
Titanium	ppm	ASTM D5185m	<1	0	---
Silver	ppm	ASTM D5185m	<1	0	---
Aluminum	ppm	ASTM D5185m >5	<1	0	---
Lead	ppm	ASTM D5185m >5	<1	0	---
Copper	ppm	ASTM D5185m >15	0	<1	---
Tin	ppm	ASTM D5185m >5	<1	0	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 33	32	38	---
Barium	ppm	ASTM D5185m 5	0	0	---
Molybdenum	ppm	ASTM D5185m	<1	<1	---
Manganese	ppm	ASTM D5185m	<1	0	---
Magnesium	ppm	ASTM D5185m 5	12	2	---
Calcium	ppm	ASTM D5185m 5	2	12	---
Phosphorus	ppm	ASTM D5185m 437	440	253	---
Zinc	ppm	ASTM D5185m 5	12	8	---
Sulfur	ppm	ASTM D5185m 5000	6824	7059	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	6	6	---
Sodium	ppm	ASTM D5185m	2	0	---
Potassium	ppm	ASTM D5185m >20	2	1	---

FLUID CLEANLINESS

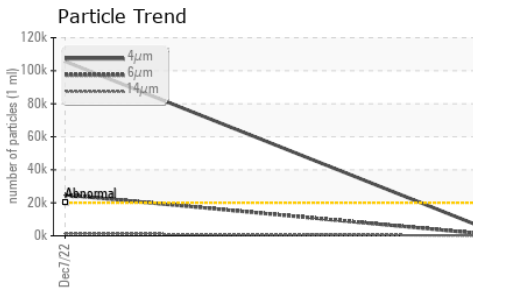
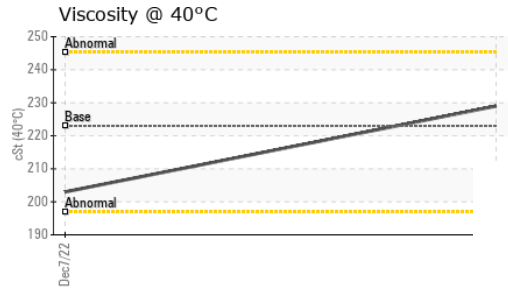
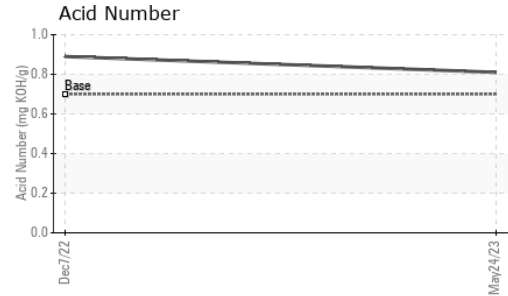
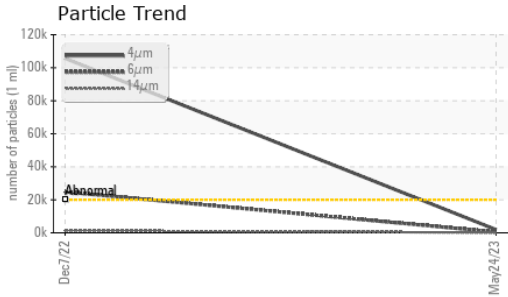
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	1916	▲ 105667	---
Particles >6µm	ASTM D7647	>5000	473	▲ 24793	---
Particles >14µm	ASTM D7647	>640	80	▲ 1349	---
Particles >21µm	ASTM D7647	>160	20	198	---
Particles >38µm	ASTM D7647	>40	1	7	---
Particles >71µm	ASTM D7647	>10	0	0	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	18/16/13	▲ 24/22/18	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.7	0.81	0.89	---



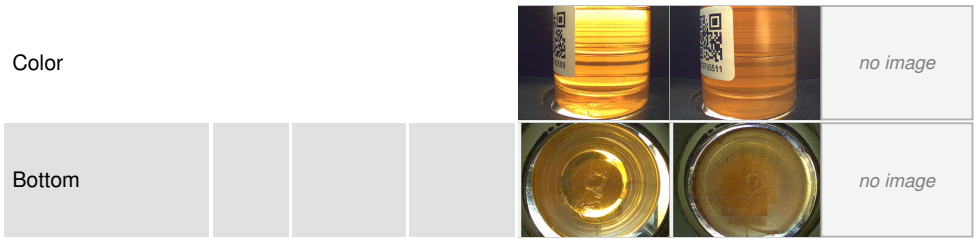
OIL ANALYSIS REPORT



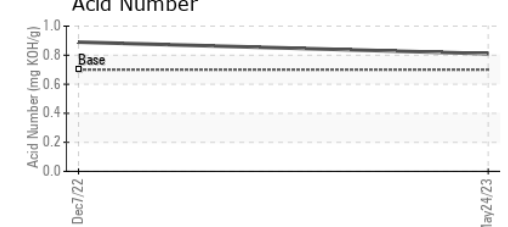
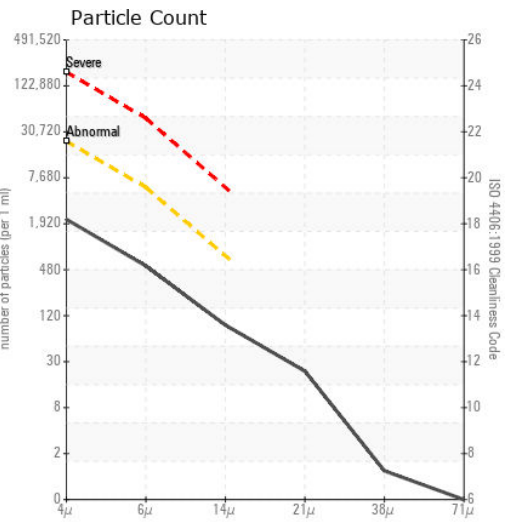
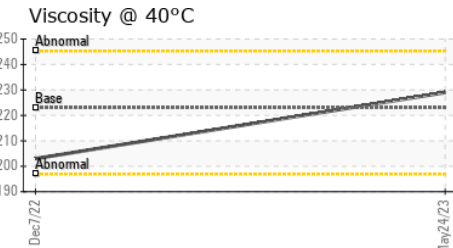
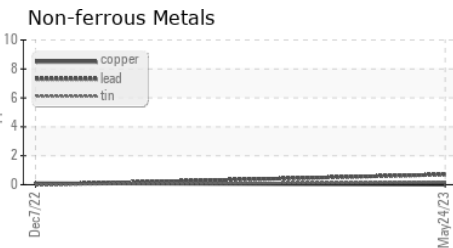
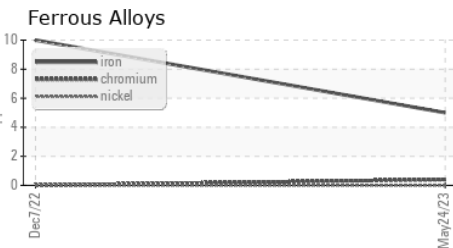
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 223	229	203	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0765509 **Received** : 30 May 2023
Lab Number : 05859215 **Diagnosed** : 31 May 2023
Unique Number : 10493680 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: PrtCount)

EAGLE GROVE COOP
 NW 8TH ST AND MONOE AVE
 EAGLE GROVE, IA
 US 50533
 Contact: TONY SCOTT
 tscott@goldeaglecoop.com
 T:
 F:

Certificate L2367
 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)