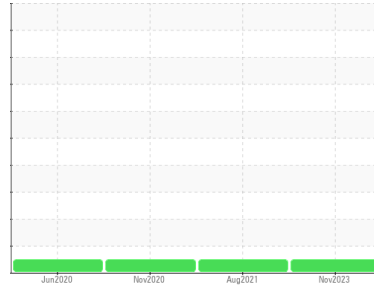




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
OR681

Component
Center Swing Drive

Fluid
PETRO CANADA GEARLUBE TOS 80W140 (--- GAL)

DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0092224	GFL0030461	GFL0010882
Sample Date	Client Info		16 Nov 2023	10 Aug 2021	23 Nov 2020
Machine Age	hrs	Client Info	10033	6171	5143
Oil Age	hrs	Client Info	1000	1000	1000
Oil Changed		Client Info	Not Chngd	N/A	Not Chngd
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >151	145	42	25
Chromium	ppm	ASTM D5185(m) >11	1	<1	<1
Nickel	ppm	ASTM D5185(m) >10	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m)	<1	0	<1
Aluminum	ppm	ASTM D5185(m) >21	1	<1	<1
Lead	ppm	ASTM D5185(m) >51	0	0	<1
Copper	ppm	ASTM D5185(m) >51	1	<1	<1
Tin	ppm	ASTM D5185(m) >10	0	<1	0
Antimony	ppm	ASTM D5185(m) >5	0	<1	0
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

ADDITIVES

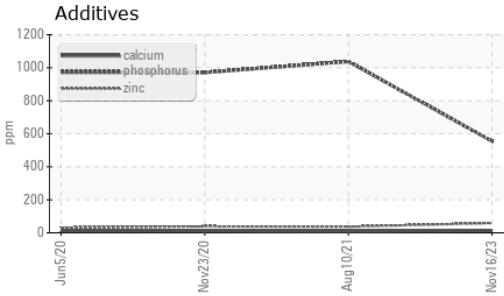
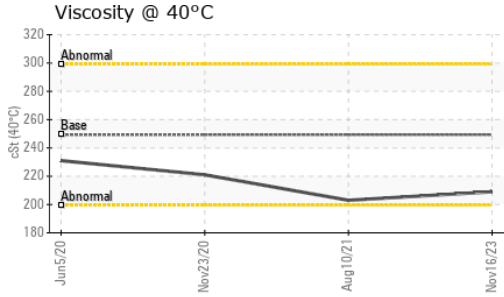
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 170	66	163	175
Barium	ppm	ASTM D5185(m) 4	<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0	0	0
Manganese	ppm	ASTM D5185(m)	2	1	<1
Magnesium	ppm	ASTM D5185(m) 1.0	4	<1	<1
Calcium	ppm	ASTM D5185(m) 16	13	9	11
Phosphorus	ppm	ASTM D5185(m) 920	555	1038	971
Zinc	ppm	ASTM D5185(m) 8	59	37	39
Sulfur	ppm	ASTM D5185(m) 1630	8233	18949	19211
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >31	12	6	5
Sodium	ppm	ASTM D5185(m) >51	<1	1	1
Potassium	ppm	ASTM D5185(m) >20	3	<1	<1



OIL ANALYSIS REPORT



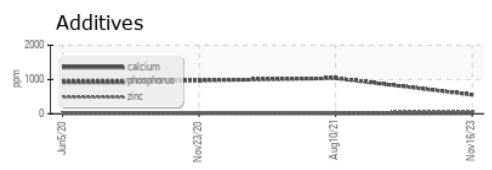
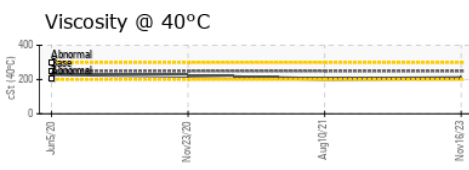
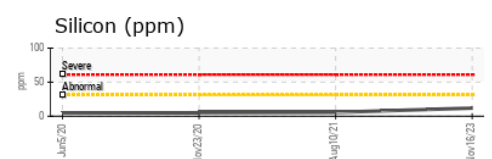
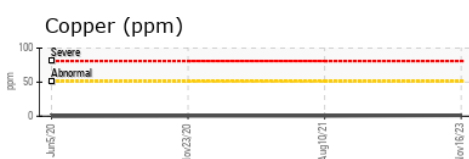
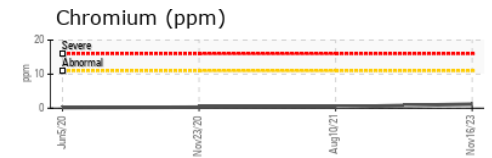
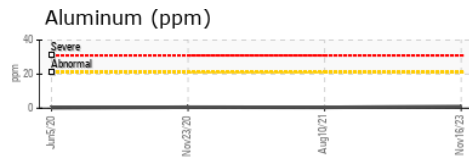
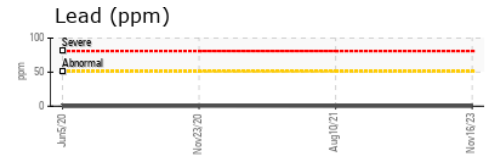
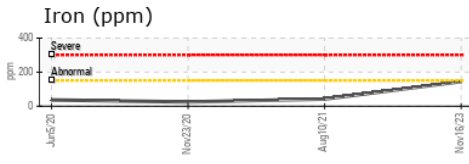
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	249.3	209	203	221

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 720 - Lafleche - Landfill
Sample No. : GFL0092224 **Received** : 23 Nov 2023
Lab Number : 02598538 **Diagnosed** : 24 Nov 2023
Unique Number : 5683618 **Diagnostician** : Kevin Marson
Test Package : MOB 1

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.