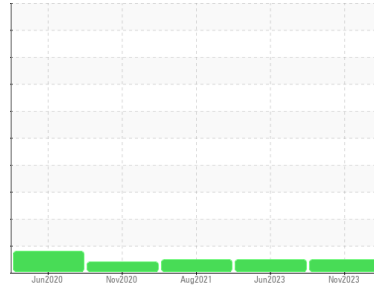




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
OR681

Component
Center Right Hydraulic System

Fluid
PETRO CANADA HYDREX AW 46 (200 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			GFL0092225	GFL0056457	GFL0030456
Sample Date	Client Info			16 Nov 2023	01 Jun 2023	10 Aug 2021
Machine Age	hrs	Client Info		10033	9144	6171
Oil Age	hrs	Client Info		2000	4000	1500
Oil Changed	Client Info			Not Changed	Changed	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.075	NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>32	15	23	10
Chromium	ppm	ASTM D5185(m)	>9	2	2	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)		<1	0	0
Aluminum	ppm	ASTM D5185(m)	>9	2	4	1
Lead	ppm	ASTM D5185(m)	>28	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>50	8	15	16
Tin	ppm	ASTM D5185(m)	>5	<1	<1	1
Antimony	ppm	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

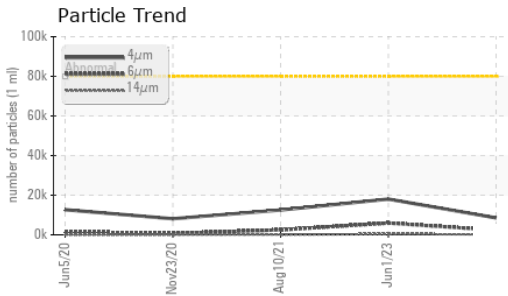
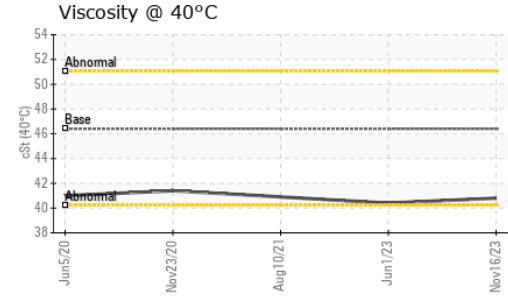
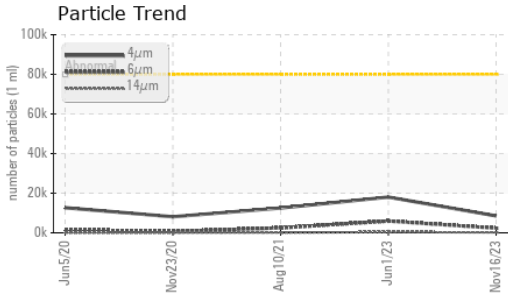
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<1	0	<1
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	<1	<1
Manganese	ppm	ASTM D5185(m)	0	0	<1	0
Magnesium	ppm	ASTM D5185(m)	0	5	6	11
Calcium	ppm	ASTM D5185(m)	50	103	100	111
Phosphorus	ppm	ASTM D5185(m)	330	632	635	670
Zinc	ppm	ASTM D5185(m)	430	760	658	739
Sulfur	ppm	ASTM D5185(m)	760	1400	1333	1371
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>11	3	5	3
Sodium	ppm	ASTM D5185(m)	>21	1	2	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	2	2

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>80000	8547	18036	12523
Particles >6µm		ASTM D7647	>20000	2342	5920	2490
Particles >14µm		ASTM D7647	>640	212	357	124
Particles >21µm		ASTM D7647	>160	59	64	25
Particles >38µm		ASTM D7647	>40	3	1	0
Particles >71µm		ASTM D7647	>10	1	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	20/18/15	21/20/16	21/18/14



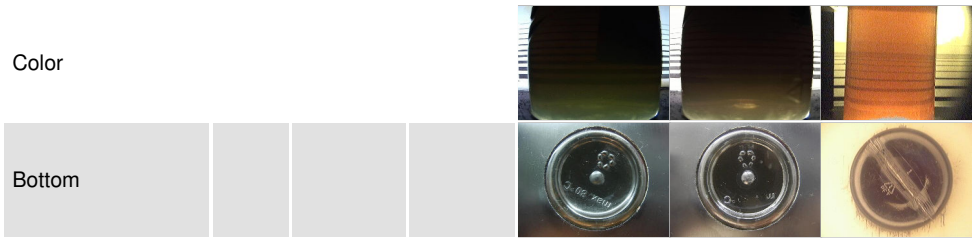
OIL ANALYSIS REPORT



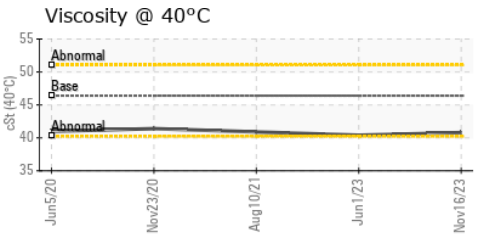
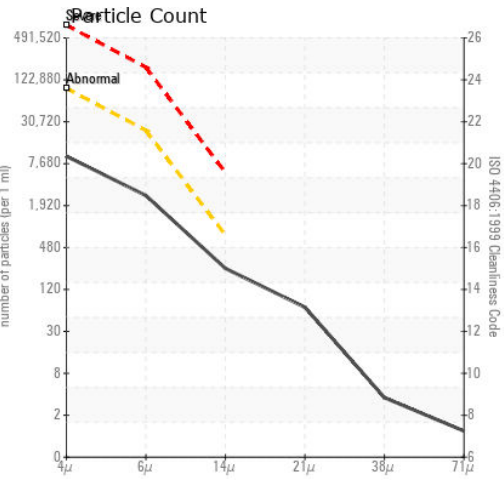
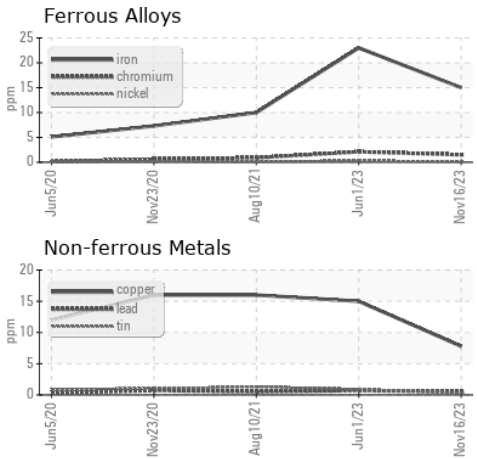
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.075	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	46.4	40.8	40.4	40.9

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. : GFL0092225 **Received** : 23 Nov 2023
Lab Number : 02598457 **Diagnosed** : 24 Nov 2023
Unique Number : 5683537 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: PrtCount)

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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 T: (613)538-4853
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