

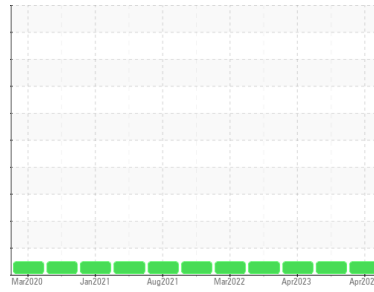


OIL ANALYSIS REPORT



Machine Id
OR962
 Component
Rear Differential
 Fluid
PETRO CANADA PRODURO TO-4 SAE 30 (32 LTR)

Sample Rating Trend



NORMAL



DIAGNOSIS

Recommendation

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

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0113333	GFL0092255	GFL0056456
Sample Date	Client Info		17 Apr 2024	19 Jan 2024	25 Apr 2023
Machine Age	hrs	Client Info	14420	13733	11728
Oil Age	hrs	Client Info	12415	1348	796
Oil Changed		Client Info	N/A	Not Changd	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>.2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >500	10	7	19
Chromium	ppm	ASTM D5185(m) >3	0	0	0
Nickel	ppm	ASTM D5185(m) >3	0	<1	<1
Titanium	ppm	ASTM D5185(m) >2	0	0	<1
Silver	ppm	ASTM D5185(m) >2	0	0	0
Aluminum	ppm	ASTM D5185(m) >30	<1	1	1
Lead	ppm	ASTM D5185(m) >13	0	0	0
Copper	ppm	ASTM D5185(m) >103	<1	<1	<1
Tin	ppm	ASTM D5185(m) >5	0	0	0
Antimony	ppm	ASTM D5185(m) >5	0	0	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

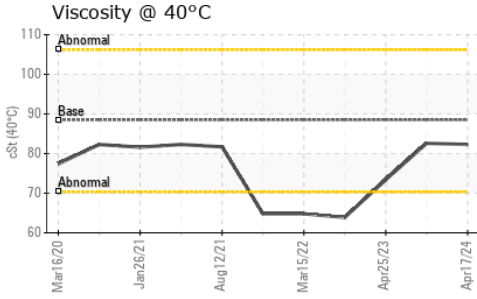
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 2	8	6	18
Barium	ppm	ASTM D5185(m) 0	<1	0	<1
Molybdenum	ppm	ASTM D5185(m) 0	2	2	4
Manganese	ppm	ASTM D5185(m) 9	0	0	<1
Magnesium	ppm	ASTM D5185(m) 1	41	41	59
Calcium	ppm	ASTM D5185(m) 3131	3140	3242	3209
Phosphorus	ppm	ASTM D5185(m) 1194	919	965	951
Zinc	ppm	ASTM D5185(m) 1281	1083	1093	1016
Sulfur	ppm	ASTM D5185(m) 3811	3107	3612	3068
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >100	4	6	7
Sodium	ppm	ASTM D5185(m)	1	<1	<1
Potassium	ppm	ASTM D5185(m) >20	<1	<1	1



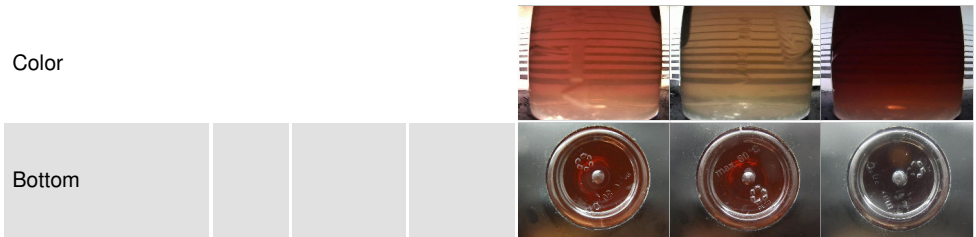
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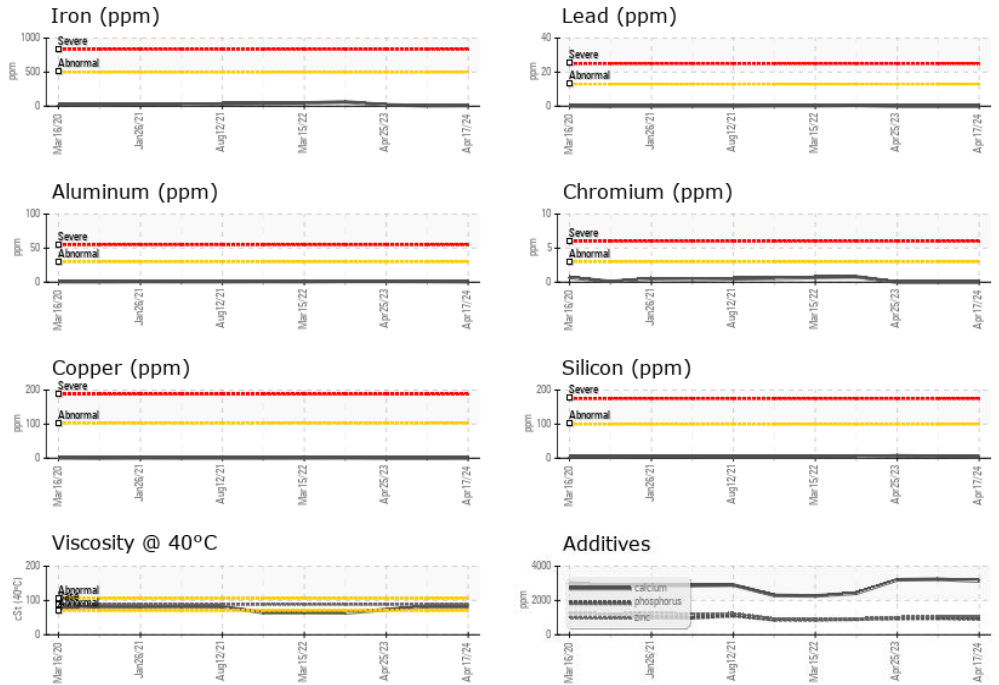
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	88.5	82.3	82.6	73.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0113333
Lab Number : **02631036**
Unique Number : 5772189
Test Package : MOB 1
Received : 23 Apr 2024
Tested : 23 Apr 2024
Diagnosed : 23 Apr 2024 - Wes Davis

GFL Environmental - 720 - Lafleche - Landfill
 17125 Lafleche Road,
 Moose Creek, ON
 CA K0C 1W0
 Contact: Charles Bergeron
 cbergeron@gflenv.com
 T: (613)538-4853
 F:

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.