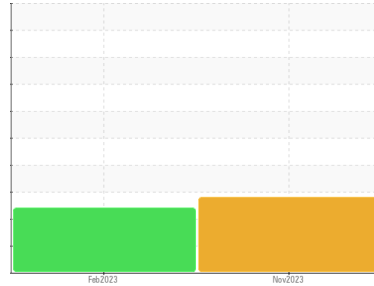


Machine Id
301WG

Component
Gear Unit

Fluid
PETRO CANADA PURITY FG EP GEAR FLUID 460 (--- GAL)



DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

Lithium (Li) level abnormal at 29ppm., indicates possible grease contamination. There is a moderate concentration of water present in the oil. Free water present.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0066915	PC0064126	---
Sample Date	Client Info	10 Nov 2023	21 Feb 2023	---
Machine Age	hrs	0	0	---
Oil Age	hrs	0	3781	---
Oil Changed	Client Info	N/A	N/A	---
Sample Status		ABNORMAL	ABNORMAL	---

WEAR METALS

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185(m)	>500	143	125	---
Chromium	ppm	ASTM D5185(m)	>8	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		<1	0	---
Aluminum	ppm	ASTM D5185(m)	>20	11	21	---
Lead	ppm	ASTM D5185(m)	>15	1	1	---
Copper	ppm	ASTM D5185(m)	>100	7	8	---
Tin	ppm	ASTM D5185(m)	>5	<1	<1	---
Antimony	ppm	ASTM D5185(m)	>5	3	4	---
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	2	---
Barium	ppm	ASTM D5185(m)		1	1	---
Molybdenum	ppm	ASTM D5185(m)		<1	<1	---
Manganese	ppm	ASTM D5185(m)		<1	1	---
Magnesium	ppm	ASTM D5185(m)		<1	0	---
Calcium	ppm	ASTM D5185(m)		22	28	---
Phosphorus	ppm	ASTM D5185(m)	135	159	250	---
Zinc	ppm	ASTM D5185(m)		8	11	---
Sulfur	ppm	ASTM D5185(m)	660	725	448	---
Lithium	ppm	ASTM D5185(m)		▲ 29	17	---

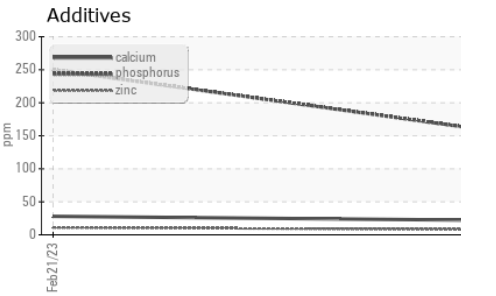
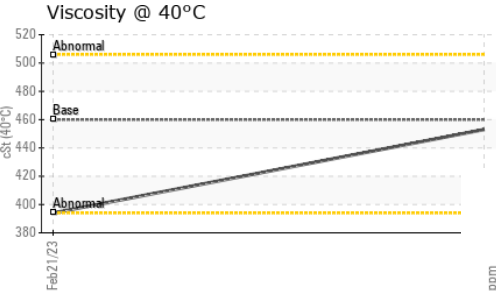
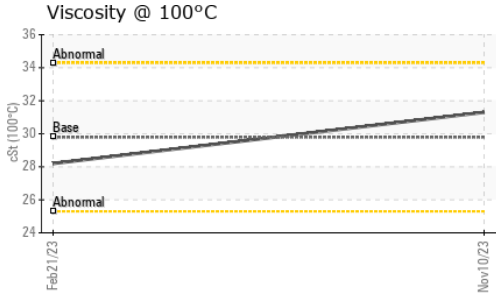
CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	>75	10	9	---
Sodium	ppm	ASTM D5185(m)		1	1	---
Potassium	ppm	ASTM D5185(m)	>20	3	2	---

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	VLITE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	▲ LAYRD	▲ WGOIL	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	▲ .2%	.5%	---
Free Water	scalar	Visual*		▲ 1%	▲ 1%	---

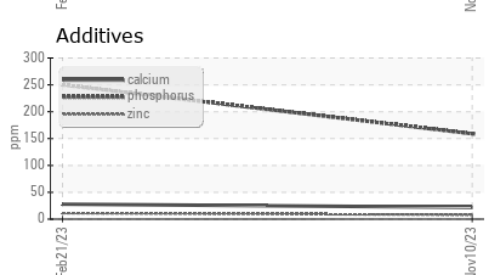
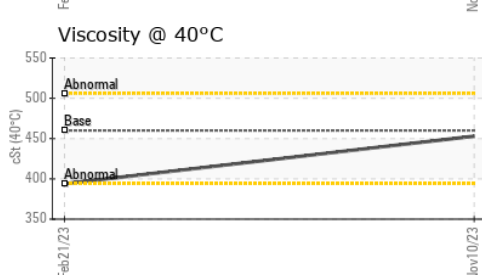
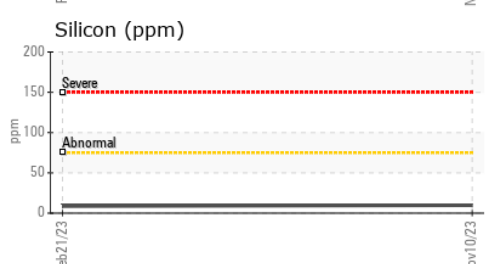
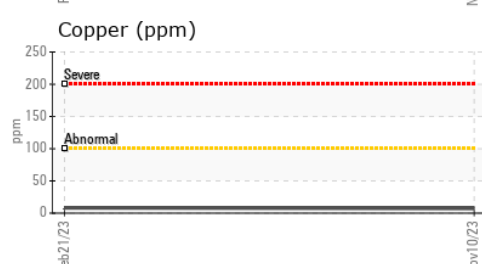
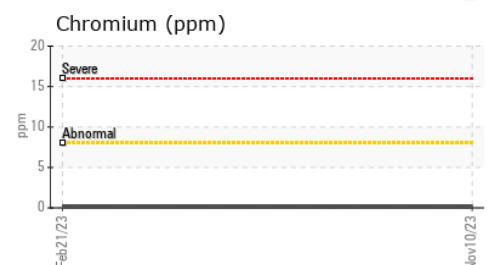
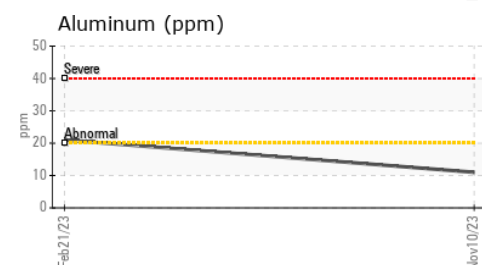
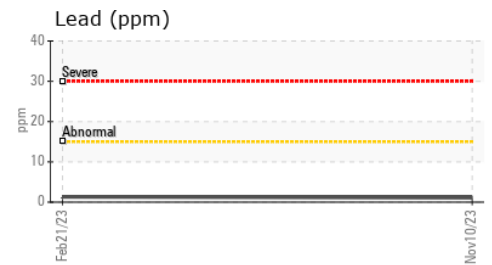
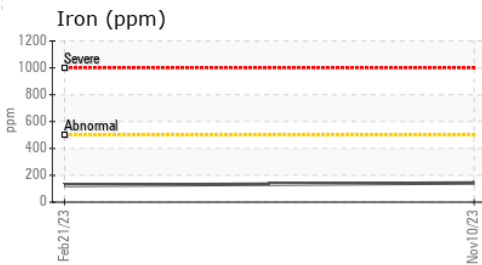
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	460	453	394	---
Visc @ 100°C	cSt	ASTM D7279(m)	29.79	31.3	28.2	---
Viscosity Index (VI)	Scale	ASTM D2270*	99	99	98	---

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0066915 **Received** : 14 Nov 2023
Lab Number : **02596396** **Diagnosed** : 15 Nov 2023
Unique Number : 5681476 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: KV100, VI)

CITY OF KIMBERLEY
 340 SPOKANE ST
 KIMBERLEY, BC
 CA V1A 2E8
 Contact: J Hollister
 jhollister@kimberley.ca

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.

T:
F: