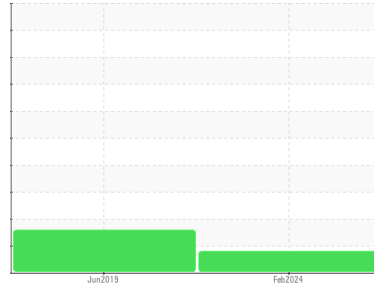


Machine Id
MASH MIXER AGITATOR (S/N 56636)
Component
Gearbox
Fluid
PETRO CANADA ULTIMA EP 320 (15 GAL)



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**
Viscosity of sample indicates oil is within ISO 220 range, advise investigate. 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	PC0080612	PC367941	---
Sample Date	Client Info	26 Feb 2024	24 Jun 2019	---
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	---
Sample Status			ABNORMAL	ATTENTION

CONTAMINATION method limit/base current history1 history2

Water	WC Method	>0.2	NEG	NEG	---
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WEAR METALS method limit/base current history1 history2

PQ		ASTM D8184*		0	9	---
Iron	ppm	ASTM D5185(m)	>200	2	12	---
Chromium	ppm	ASTM D5185(m)	>15	0	0	---
Nickel	ppm	ASTM D5185(m)	>15	<1	0	---
Titanium	ppm	ASTM D5185(m)		0	2	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>25	9	95	---
Lead	ppm	ASTM D5185(m)	>100	2	4	---
Copper	ppm	ASTM D5185(m)	>200	1	7	---
Tin	ppm	ASTM D5185(m)	>25	<1	0	---
Antimony	ppm	ASTM D5185(m)	>5	0	<1	---
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)		57	46	---
Barium	ppm	ASTM D5185(m)	0	0	<1	---
Molybdenum	ppm	ASTM D5185(m)	0	0	0	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)	0	<1	2	---
Calcium	ppm	ASTM D5185(m)	0	6	60	---
Phosphorus	ppm	ASTM D5185(m)	250	256	252	---
Zinc	ppm	ASTM D5185(m)	0	9	71	---
Sulfur	ppm	ASTM D5185(m)	5400	5985	6503	---
Lithium	ppm	ASTM D5185(m)		<1	2	---

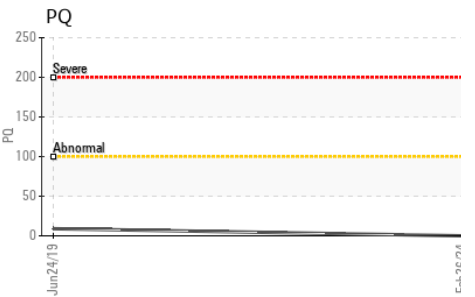
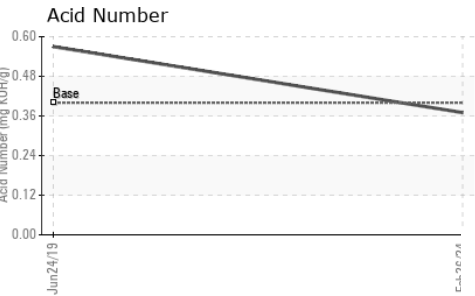
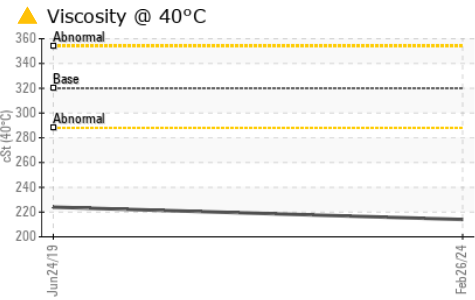
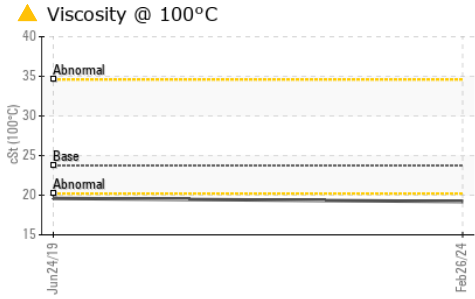
CONTAMINANTS method limit/base current history1 history2

Silicon	ppm	ASTM D5185(m)	>50	8	18	---
Sodium	ppm	ASTM D5185(m)		0	<1	---
Potassium	ppm	ASTM D5185(m)	>20	<1	3	---

FLUID DEGRADATION method limit/base current history1 history2

Acid Number (AN)	mg KOH/g	ASTM D974*	0.4	0.37	0.570	---
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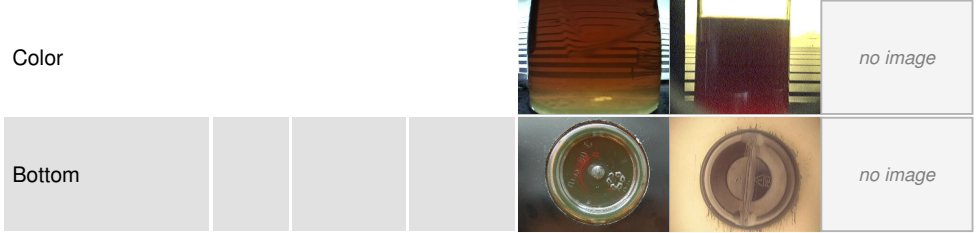
OIL ANALYSIS REPORT



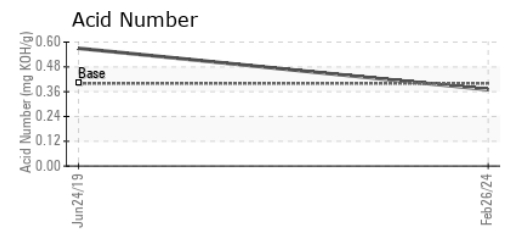
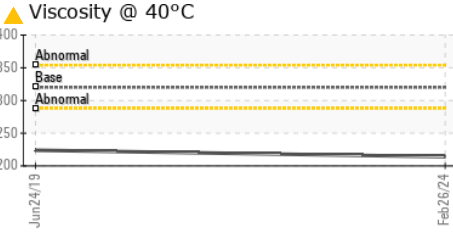
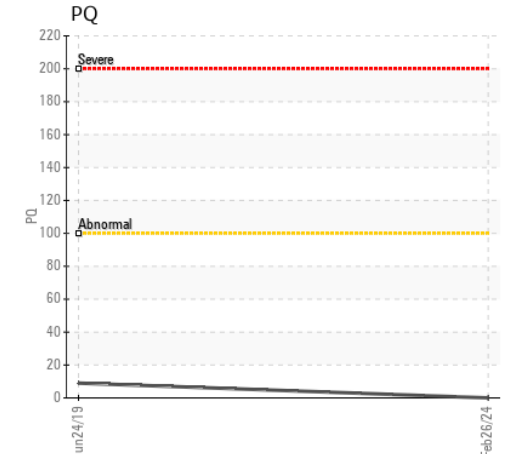
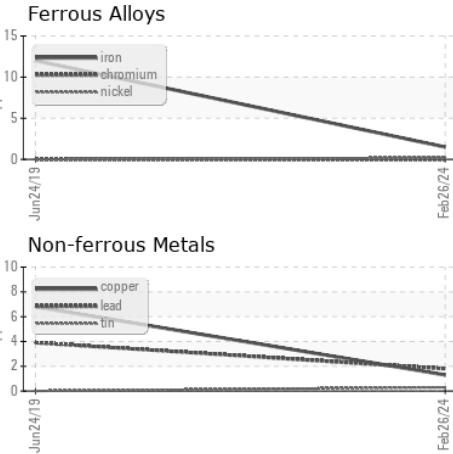
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	VLITE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	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 D7279(m)	320	▲ 214	224
Visc @ 100°C	cSt	ASTM D7279(m)	23.75	▲ 19.2	19.6
Viscosity Index (VI)	Scale	ASTM D2270*	94	101	99

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0080612 **Received** : 01 Mar 2024
Lab Number : 02619368 **Tested** : 04 Mar 2024
Unique Number : 5736478 **Diagnosed** : 04 Mar 2024 - Kevin Marson
Test Package : IND 2 (Additional Tests: KV100, VI)

Labatt - St. John's Brewery
 80 Leslie Street
 St John's, NL
 CA A1E 2V8
 Contact: Rod Penney
 rod.penney@labatt.com
 T: (709)570-7152
 F: (709)570-7160

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.