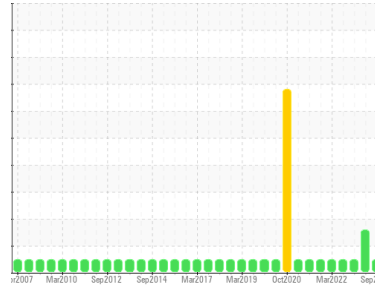


Machine Id  
**MILK SEPARATOR (S/N 1655562)**

Component  
**Gearbox**  
Fluid

**PETRO CANADA ENDURATEX EP 220 (6 LTR)**



**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 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	<b>PC0077112</b>	PC0061370	PC0061760
Sample Date	Client Info	<b>23 Sep 2023</b>	01 Apr 2023	25 Sep 2022
Machine Age	mths	Client Info	0	0
Oil Age	mths	Client Info	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	ABNORMAL	NORMAL

**WEAR METALS** method limit/base current history1 history2

PQ	ASTM D8184*		<b>0</b>	69	0	
Iron	ppm	ASTM D5185(m)	>200	<b>14</b>	112	9
Chromium	ppm	ASTM D5185(m)	>15	<b>0</b>	1	0
Nickel	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	3	1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>0</b>	1	0
Lead	ppm	ASTM D5185(m)	>100	<b>&lt;1</b>	7	2
Copper	ppm	ASTM D5185(m)	>200	<b>33</b>	▲ 210	67
Tin	ppm	ASTM D5185(m)	>25	<b>4</b>	▲ 22	8
Antimony	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**ADDITIVES** method limit/base current history1 history2

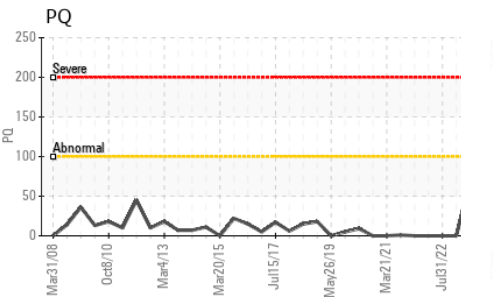
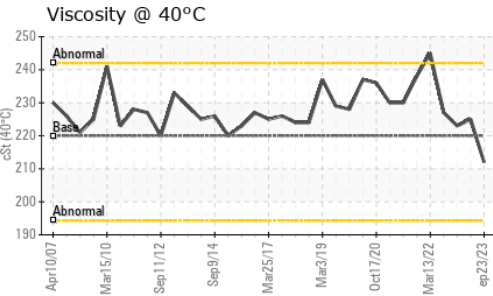
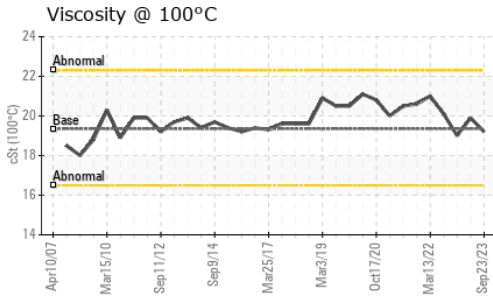
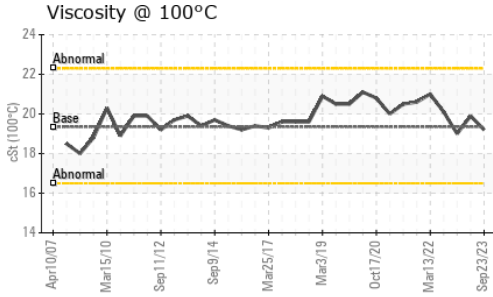
Boron	ppm	ASTM D5185(m)	60	<b>6</b>	6	9
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185(m)	0	<b>6</b>	2	<1
Calcium	ppm	ASTM D5185(m)	0	<b>15</b>	19	<1
Phosphorus	ppm	ASTM D5185(m)	270	<b>152</b>	150	319
Zinc	ppm	ASTM D5185(m)	0	<b>11</b>	13	6
Sulfur	ppm	ASTM D5185(m)	11200	<b>10729</b>	10067	6357
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

**CONTAMINANTS** method limit/base current history1 history2

Silicon	ppm	ASTM D5185(m)	>50	<b>2</b>	12	2
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1

**FLUID DEGRADATION** method limit/base current history1 history2

Acid Number (AN)	mg KOH/g	ASTM D974*	0.40	<b>0.34</b>	0.38	0.80
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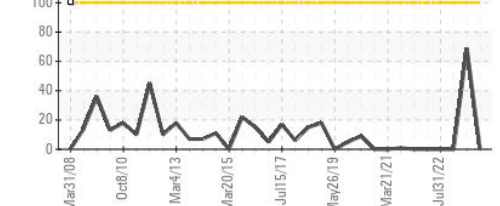
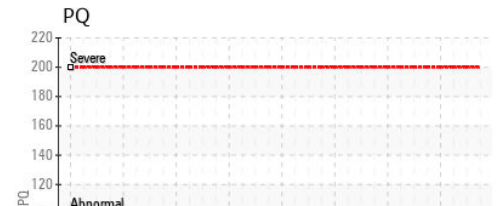
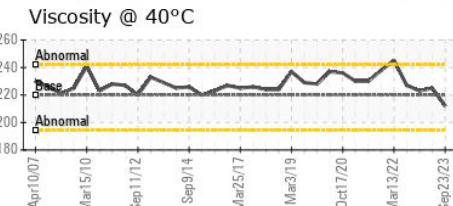
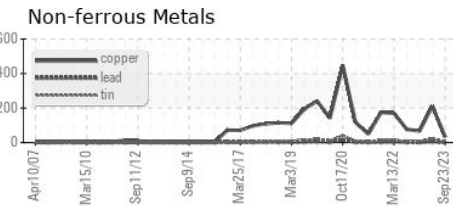
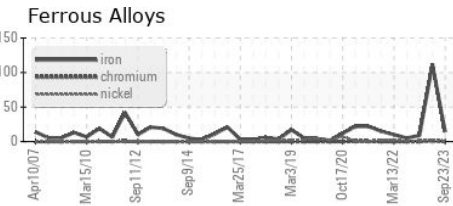


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	220	212	225
Visc @ 100°C	cSt	ASTM D7279(m)	19.35	19.2	19.9
Viscosity Index (VI)	Scale	ASTM D2270*	99	102	101

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0077112 **Received** : 27 Sep 2023  
**Lab Number** : 02585664 **Diagnosed** : 28 Sep 2023  
**Unique Number** : 5646729 **Diagnostician** : Wes Davis  
**Test Package** : IND 2 ( Additional Tests: KV100, TAN Man, VI )

**SAPUTO FOODS LTD**  
 284 HOPE STREET WEST  
 TAVISTOCK, ON  
 CA N0B 2R0  
 Contact: Joseph Ross  
 joseph.ross@saputo.com  
 T: (519)655-2337  
 F: (519)655-3449

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.