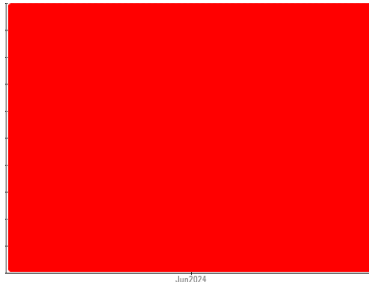




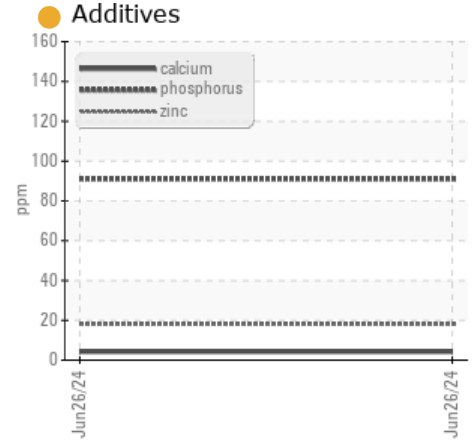
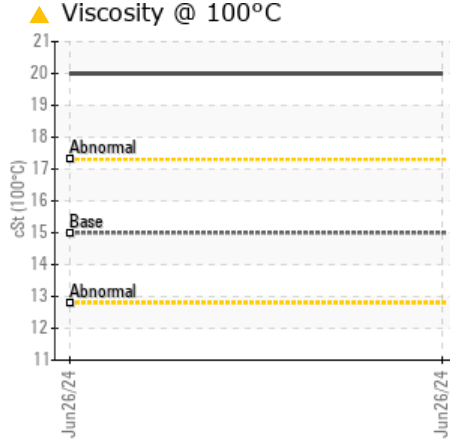
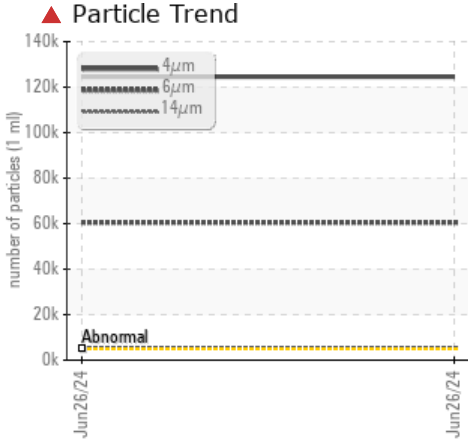
Machine Id  
**NIRO SOAVI**

Component  
**Circulating Oil**

Fluid  
**PETRO CANADA ENDURATEX EP 150 (--- LTR)**



**COMPONENT CONDITION SUMMARY**



**RECOMMENDATION**

Check seals and/or filters for points of contaminant entry. We advise that you check all areas where contaminants can enter the system. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. Resample in 30-45 days to monitor this situation.

**PROBLEMATIC TEST RESULTS**

Sample Status	SEVERE	---	---
Particles >4µm	▲ 124558	---	---
Particles >6µm	▲ 60484	---	---
Particles >14µm	▲ 5204	---	---
Particles >21µm	▲ 1450	---	---
Particles >38µm	▲ 188	---	---
Particles >71µm	▲ 39	---	---
Oil Cleanliness	▲ 24/23/20	---	---
Appearance	▲ WGOIL	---	---
Free Water	▲ 1%	---	---
Visc @ 100°C	▲ 20.0	---	---

Customer Id: TAVTAV  
Sample No.: PC0087797  
Lab Number: 02647434  
Test Package: IND 2



To manage this report scan the QR code

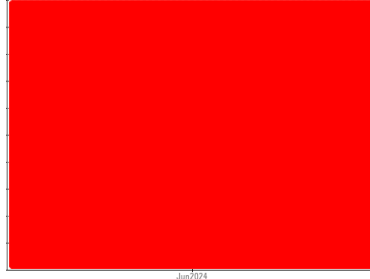
To discuss the diagnosis or test data:  
Kevin Marson +1 (289)291-4644 x4644  
[Kevin.Marson@wearcheck.com](mailto:Kevin.Marson@wearcheck.com)

To change component or sample information:  
Gloria Gonzalez +1 (289)291-4643 x4643  
[gloria.gonzalez@wearcheck.com](mailto:gloria.gonzalez@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	Resample in 30-45 days to monitor this situation.
Check Breathers	---	---	?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.
Check Dirt Access	---	---	?	We advise that you check all areas where contaminants can enter the system.
Check Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.
Check Seals	---	---	?	Check seals and/or filters for points of contaminant entry.
Filter Fluid	---	---	?	We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil.

## HISTORICAL DIAGNOSIS



Machine Id  
**NIRO SOAVI**

Component  
**Circulating Oil**

Fluid  
**PETRO CANADA ENDURATEX EP 150 (--- LTR)**

**DIAGNOSIS**

**▲ Recommendation**

Check seals and/or filters for points of contaminant entry. We advise that you check all areas where contaminants can enter the system. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. Resample in 30-45 days to monitor this situation.

**Wear**

All component wear rates are normal.

**▲ Contamination**

There is a high amount of particulates (2 to 100 microns in size) present in the oil. Free water present.

**▲ Fluid Condition**

Viscosity of sample indicates oil is within SAE 20W50 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

**SAMPLE INFORMATION** method limit/base current history1 history2

Sample Number	Client Info	<b>PC0087797</b>	---	---
Sample Date	Client Info	<b>26 Jun 2024</b>	---	---
Machine Age	mths Client Info	<b>20</b>	---	---
Oil Age	mths Client Info	<b>9</b>	---	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>SEVERE</b>	---	---

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

Water	WC Method	<b>NEG</b>	---	---
-------	-----------	------------	-----	-----

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

PQ	ASTM D8184*	<b>1</b>	---	---
Iron	ppm ASTM D5185(m) >20	<b>22</b>	---	---
Chromium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Nickel	ppm ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Titanium	ppm ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm ASTM D5185(m)	<b>0</b>	---	---
Aluminum	ppm ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Lead	ppm ASTM D5185(m) >20	<b>3</b>	---	---
Copper	ppm ASTM D5185(m) >20	<b>11</b>	---	---
Tin	ppm ASTM D5185(m) >20	<b>2</b>	---	---
Antimony	ppm ASTM D5185(m)	<b>0</b>	---	---
Vanadium	ppm ASTM D5185(m)	<b>0</b>	---	---
Beryllium	ppm ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm ASTM D5185(m)	<b>0</b>	---	---

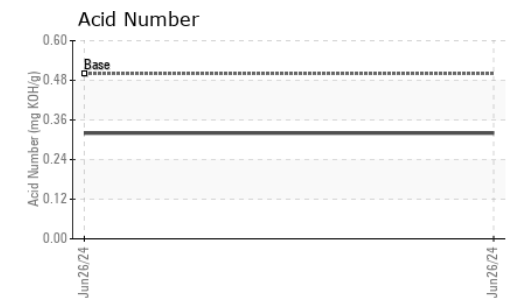
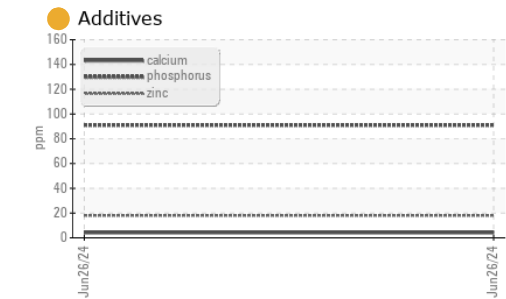
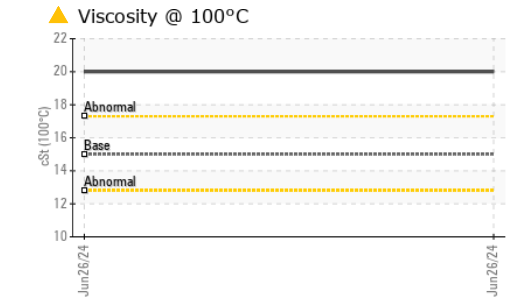
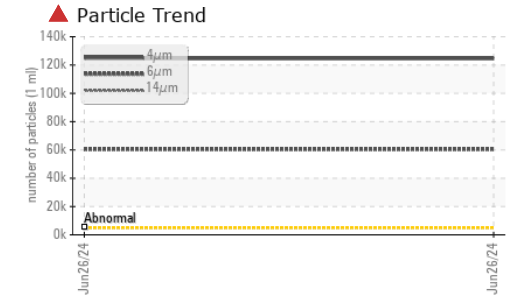
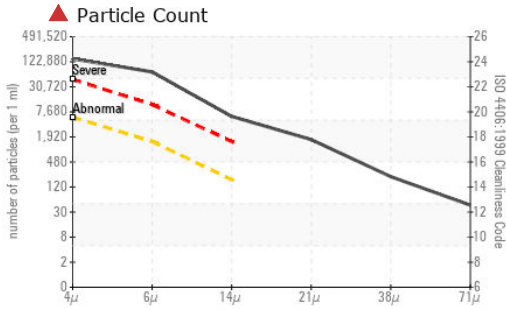
**ADDITIVES** method limit/base current history1 history2

Boron	ppm ASTM D5185(m) 55	<b>4</b>	---	---
Barium	ppm ASTM D5185(m) 0	<b>&lt;1</b>	---	---
Molybdenum	ppm ASTM D5185(m) 0	<b>0</b>	---	---
Manganese	ppm ASTM D5185(m) 0	<b>0</b>	---	---
Magnesium	ppm ASTM D5185(m) 2	<b>&lt;1</b>	---	---
Calcium	ppm ASTM D5185(m) 6	<b>4</b>	---	---
Phosphorus	ppm ASTM D5185(m) 250	<b>91</b>	---	---
Zinc	ppm ASTM D5185(m) 3	<b>18</b>	---	---
Sulfur	ppm ASTM D5185(m) 7500	<b>3151</b>	---	---
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---

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

Silicon	ppm ASTM D5185(m) >15	<b>&lt;1</b>	---	---
Sodium	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---
Potassium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	---	---

# OIL ANALYSIS REPORT



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0087797 **Received** : 11 Jul 2024  
**Lab Number** : **02647434** **Tested** : 12 Jul 2024  
**Unique Number** : 5812986 **Diagnosed** : 12 Jul 2024 - Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: KV100, PQ, PrtCount, TAN Man, VI )

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.



**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

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 124558	---	---	
Particles >6µm	ASTM D7647	>1300	▲ 60484	---	---	
Particles >14µm	ASTM D7647	>160	▲ 5204	---	---	
Particles >21µm	ASTM D7647	>40	▲ 1450	---	---	
Particles >38µm	ASTM D7647	>10	▲ 188	---	---	
Particles >71µm	ASTM D7647	>3	▲ 39	---	---	
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 24/23/20	---	---	

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.5	0.32	---	---

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	▲ WGOIL	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*		NEG	---	---
Free Water	scalar	Visual*		▲ 1%	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	150.0	164	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	▲ 20.0	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	100	141	---	---

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