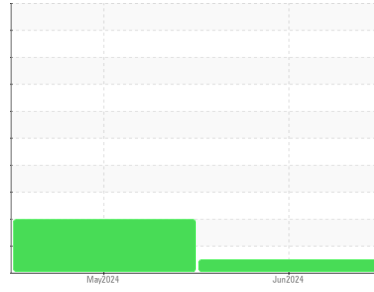


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
UNASSIGNED
Machine Id
33190 GEA DEFROST TUMBLER
Component
Gearbox
Fluid
PETRO CANADA ENDURATEX EP 220 (10 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			PC0057585	PC0057591	---
Sample Date	Client Info			29 Jun 2024	09 May 2024	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Oil Changed	Client Info			N/A	N/A	---
Sample Status				NORMAL	ABNORMAL	---

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

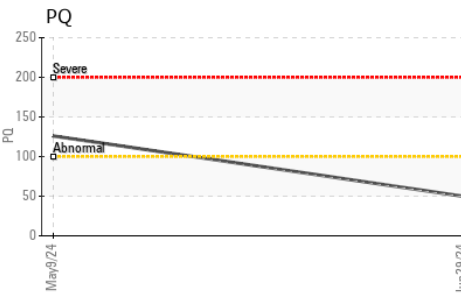
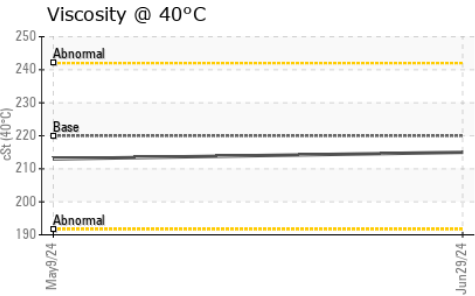
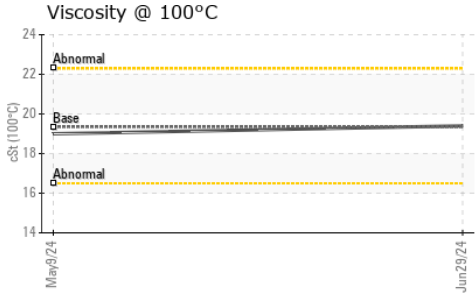
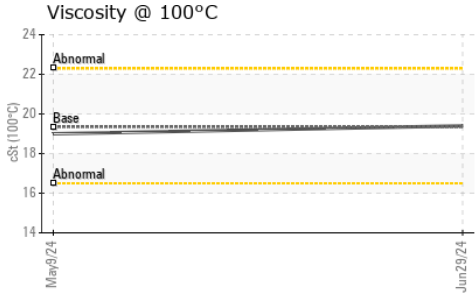
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		50	126	---
Iron	ppm	ASTM D5185(m)	>200	121	▲ 222	---
Chromium	ppm	ASTM D5185(m)	>15	<1	2	---
Nickel	ppm	ASTM D5185(m)	>15	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>25	<1	0	---
Lead	ppm	ASTM D5185(m)	>100	0	0	---
Copper	ppm	ASTM D5185(m)	>200	<1	<1	---
Tin	ppm	ASTM D5185(m)	>25	0	0	---
Antimony	ppm	ASTM D5185(m)	>5	0	0	---
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)	60	<1	<1	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	0	0	0	---
Manganese	ppm	ASTM D5185(m)	0	1	2	---
Magnesium	ppm	ASTM D5185(m)	0	0	0	---
Calcium	ppm	ASTM D5185(m)	0	<1	0	---
Phosphorus	ppm	ASTM D5185(m)	270	227	322	---
Zinc	ppm	ASTM D5185(m)	0	4	6	---
Sulfur	ppm	ASTM D5185(m)	11200	624	577	---
Lithium	ppm	ASTM D5185(m)		<1	1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	4	4	---
Sodium	ppm	ASTM D5185(m)		<1	<1	---
Potassium	ppm	ASTM D5185(m)	>20	0	<1	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.40	0.34	0.25	---

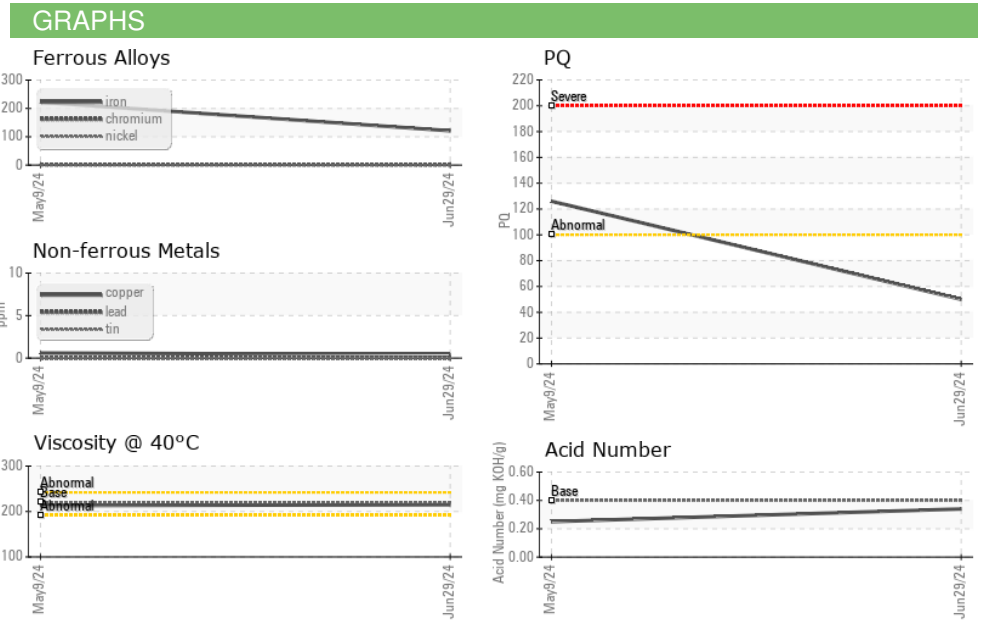
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	LIGHT	▲ LTMOD	---
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*	>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	215	213	---
Visc @ 100°C	cSt	ASTM D7279(m)	19.35	19.4	19.0	---
Viscosity Index (VI)	Scale	ASTM D2270*	99	102	99	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
PrtFilter					



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0057585
Lab Number : 02647439
Unique Number : 5812991
Test Package : IND 2 (Additional Tests: Bottom, KV100, TAN Man, VI)

Received : 11 Jul 2024
Tested : 11 Jul 2024
Diagnosed : 12 Jul 2024 - Kevin Marson

MAPLE LEAF FOODS
 440 GLOVER ROAD
 HANNON, ON
 CA L0R 1P0

Contact: Lindsay Burton
 lindsay.burton@mapleleaf.com

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.