



Machine Id
DR127
Component
Right Final Drive
Fluid
PETRO CANADA ENDURATEX EP 220 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0078045	PC0060174	PC0047541
Sample Date		Client Info		28 Aug 2023	22 Apr 2022	25 Mar 2021
Machine Age	hrs	Client Info		7802	7458	7390
Oil Age	hrs	Client Info		0	400	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>2000	11	13	30
Chromium	ppm	ASTM D5185(m)	>30	0	<1	1
Nickel	ppm	ASTM D5185(m)	>5	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>10	0	0	<1
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>70	<1	1	3
Lead	ppm	ASTM D5185(m)	>10	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>100	1	1	2
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

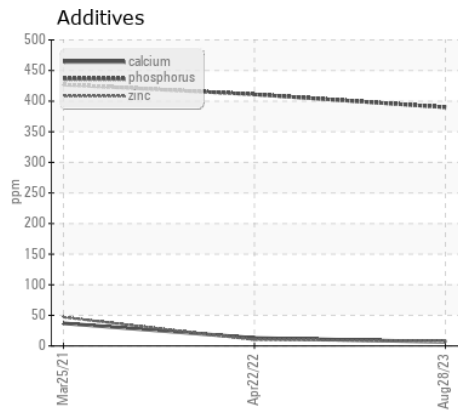
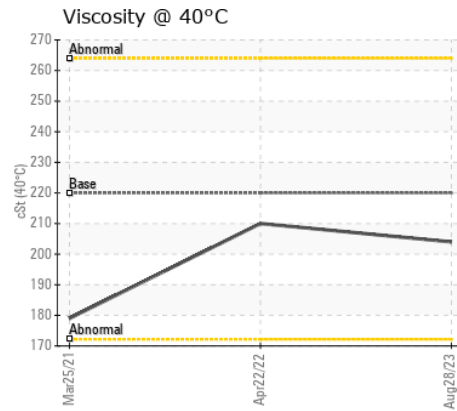
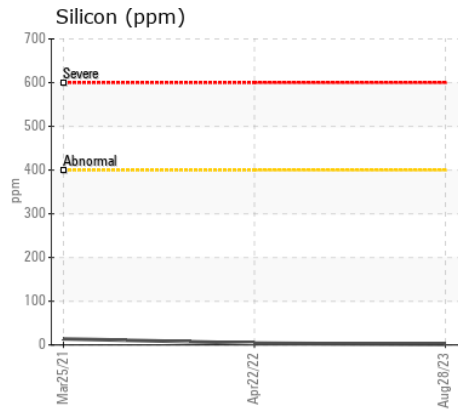
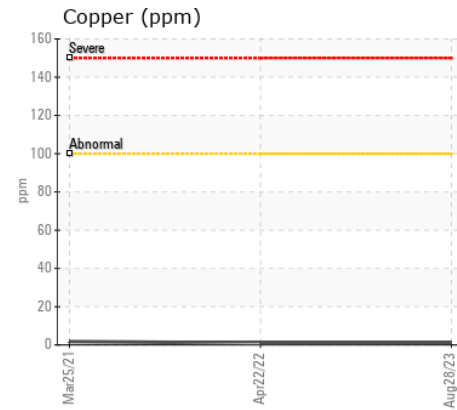
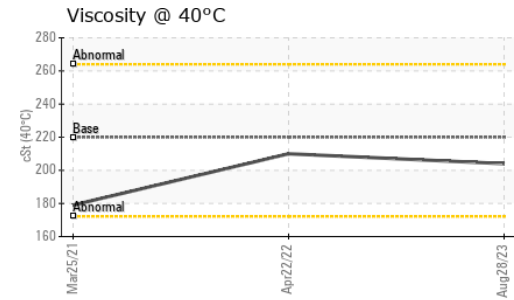
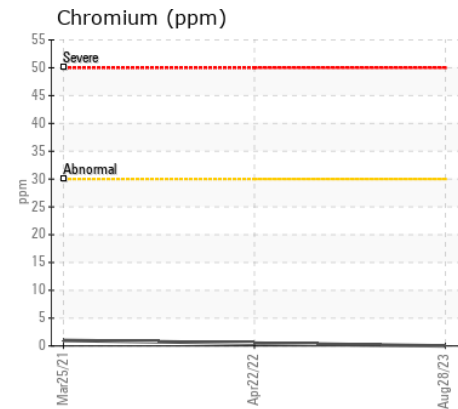
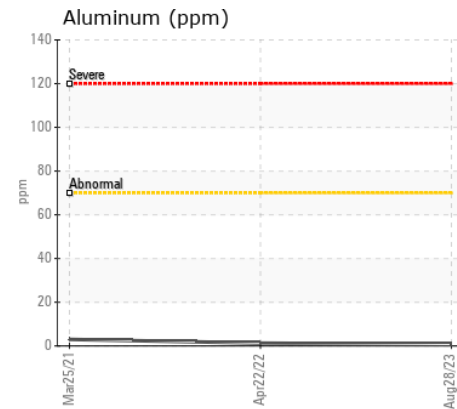
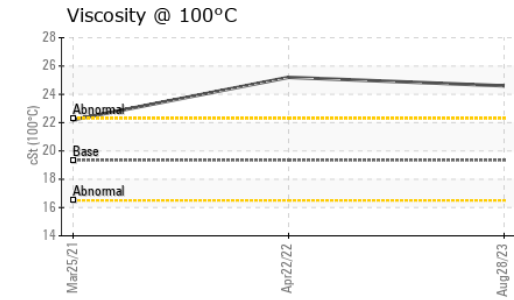
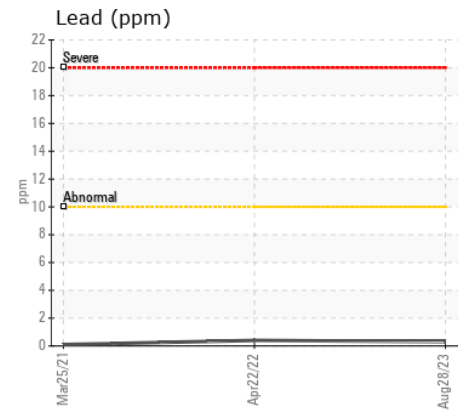
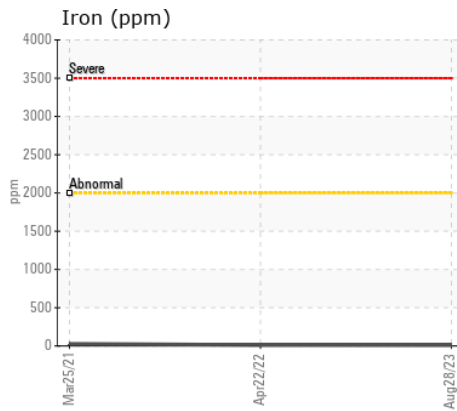
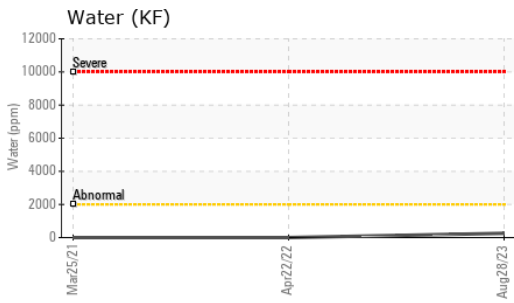
The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>400	2	4	14
Potassium	ppm	ASTM D5185(m)	>20	<1	1	1
Water	%	ASTM D6304*	>0.2	0.025	---	---
ppm Water	ppm	ASTM D6304*	>2000	258	---	---
Silt	scalar	Visual*	NONE	NONE	LIGHT	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<1	<1	2
Boron	ppm	ASTM D5185(m)	60	8	13	28
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<1	<1	2
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	0	7	9	34
Calcium	ppm	ASTM D5185(m)	0	7	13	37
Phosphorus	ppm	ASTM D5185(m)	270	390	411	427
Zinc	ppm	ASTM D5185(m)	0	8	10	47
Sulfur	ppm	ASTM D5185(m)	11200	5029	4745	4759
Visc @ 40°C	cSt	ASTM D7279(m)	220	204	210	179
Visc @ 100°C	cSt	ASTM D7279(m)	19.35	24.6	25.2	22.2
Viscosity Index (VI)	Scale	ASTM D2270*	99	150	151	149



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations
Sample No. : PC0078045 **Received** : 10 Jan 2024 151 Ram Forest Rd,
Lab Number : 02607972 **Diagnosed** : 11 Jan 2024 Stouffville, ON
Unique Number : 5709058 **Diagnostician** : Kevin Marson CA L4A 2G8
Test Package : MOB 1 (Additional Tests: KF, KV100, VI) Contact: Shannon Abbott
 sabbott@gipi.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.