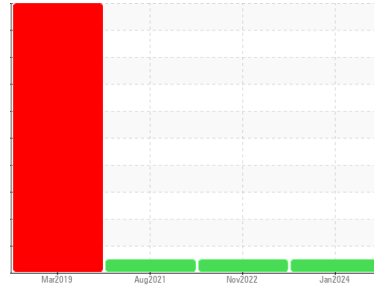


OIL ANALYSIS REPORT



Machine Id
OR636
Component
Diesel Engine
Fluid
PETRO CANADA SUPREME SYNTHETIC 5W40 (30 LTR)

Sample Rating Trend



NORMAL



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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PC0082051	PC0064530	PC0051175
Sample Date	Client Info		31 Jan 2024	10 Nov 2022	19 Aug 2021
Machine Age	hrs	Client Info	10238	9738	9335
Oil Age	hrs	Client Info	0	500	0
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	<1.0
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	22	19	29
Chromium	ppm	ASTM D5185(m) >20	6	5	11
Nickel	ppm	ASTM D5185(m) >2	<1	<1	<1
Titanium	ppm	ASTM D5185(m) >2	0	<1	0
Silver	ppm	ASTM D5185(m) >2	0	0	0
Aluminum	ppm	ASTM D5185(m) >25	7	5	6
Lead	ppm	ASTM D5185(m) >40	<1	<1	<1
Copper	ppm	ASTM D5185(m) >330	4	3	4
Tin	ppm	ASTM D5185(m) >15	<1	1	1
Antimony	ppm	ASTM D5185(m)	0	0	0
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 190	54	40	42
Barium	ppm	ASTM D5185(m) 0	0	0	0
Molybdenum	ppm	ASTM D5185(m) 79	69	62	66
Manganese	ppm	ASTM D5185(m)	0	<1	<1
Magnesium	ppm	ASTM D5185(m) 564	1323	1213	1314
Calcium	ppm	ASTM D5185(m) 993	1047	941	1046
Phosphorus	ppm	ASTM D5185(m) 763	1158	1131	1233
Zinc	ppm	ASTM D5185(m) 835	1427	1298	1451
Sulfur	ppm	ASTM D5185(m) 2536	3103	2793	3000
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

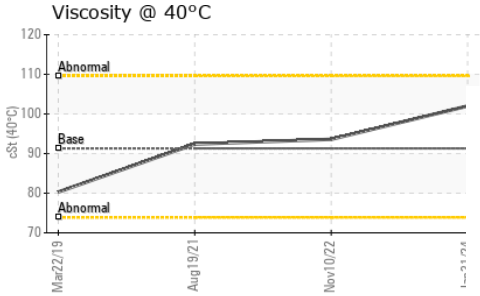
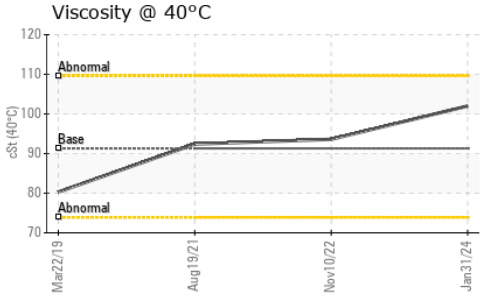
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	13	8	15
Sodium	ppm	ASTM D5185(m)	7	5	5
Potassium	ppm	ASTM D5185(m) >20	1	0	<1

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	0.1	0.1	0.1
Nitration	Abs/cm	ASTM D7624* >20	11.4	12.0	10.7
Sulfation	Abs./1mm	ASTM D7415* >30	23.1	23.6	22.4

OIL ANALYSIS REPORT

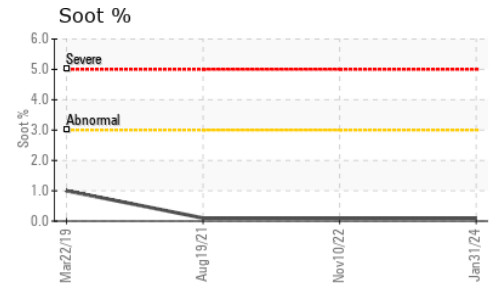
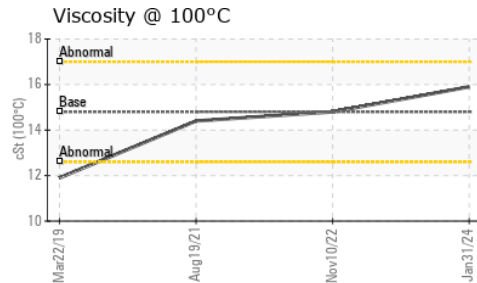
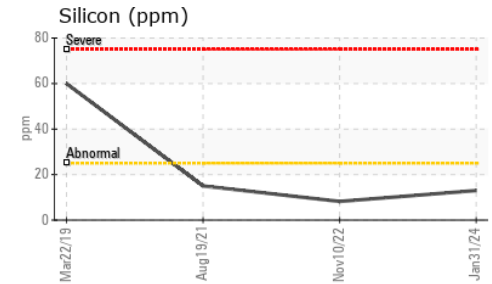
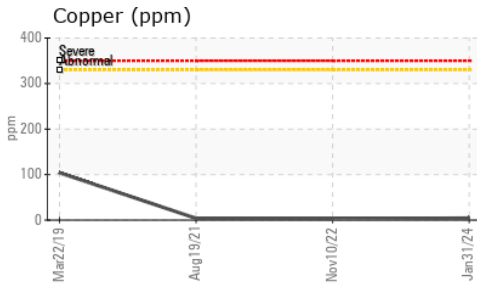
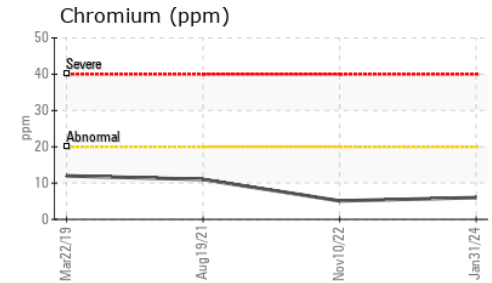
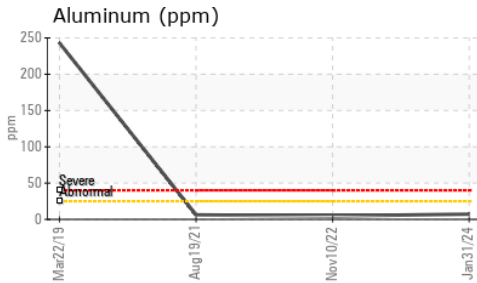
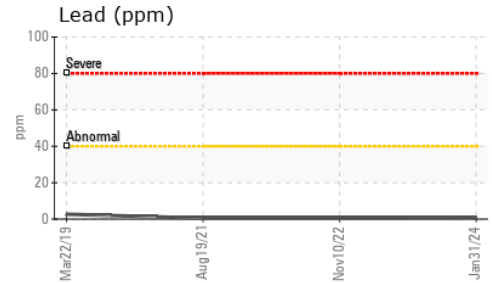
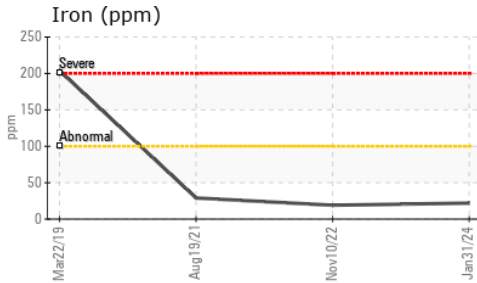


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	23.0	22.8	21.7

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	91.3	102	93.6	92.4
Visc @ 100°C	cSt	ASTM D7279(m)	14.8	15.9	14.8	14.4
Viscosity Index (VI)	Scale	ASTM D2270*	170	166	165	161

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0082051
Lab Number : 02615553
Unique Number : 5724648
Test Package : MOB 1 (Additional Tests: KV40, VI)

Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations
 151 Ram Forest Rd,
 Stouffville, ON
 CA L4A 2G8
 Contact: Shannon Abbott
 sabbott@gipi.com
 T: (905)750-5900
 F:

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.