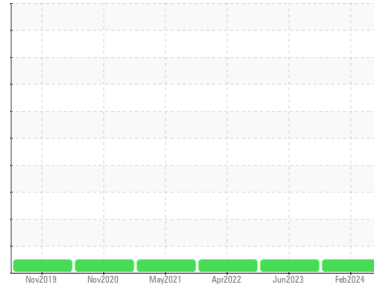


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
CR244

Component
Diesel Engine

Fluid
PETRO CANADA DURON UHP 5W40 (28 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 condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	PC0082054	PC0075768	PC0060732	
Sample Date	Client Info	07 Feb 2024	15 Jun 2023	25 Apr 2022	
Machine Age	hrs	Client Info	1863	1570	556
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	4	11	7
Chromium	ppm ASTM D5185(m) >20	<1	2	2
Nickel	ppm ASTM D5185(m) >4	<1	0	<1
Titanium	ppm ASTM D5185(m)	0	0	0
Silver	ppm ASTM D5185(m) >3	0	0	0
Aluminum	ppm ASTM D5185(m) >20	2	1	1
Lead	ppm ASTM D5185(m) >40	<1	2	<1
Copper	ppm ASTM D5185(m) >330	<1	1	<1
Tin	ppm ASTM D5185(m) >15	0	<1	<1
Antimony	ppm ASTM D5185(m)	0	0	<1
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) 65	36	34	38
Barium	ppm ASTM D5185(m) 0	0	0	0
Molybdenum	ppm ASTM D5185(m) 65	57	55	56
Manganese	ppm ASTM D5185(m) 0	0	<1	<1
Magnesium	ppm ASTM D5185(m) 1160	1067	1071	1154
Calcium	ppm ASTM D5185(m) 820	813	816	813
Phosphorus	ppm ASTM D5185(m) 1160	985	1006	1077
Zinc	ppm ASTM D5185(m) 1260	1139	1169	1234
Sulfur	ppm ASTM D5185(m) 3000	2866	2638	2824
Lithium	ppm ASTM D5185(m)	<1	<1	<1

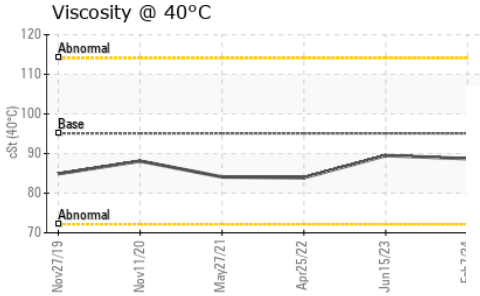
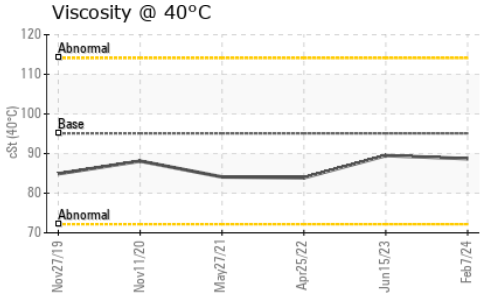
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	2	3	3
Sodium	ppm ASTM D5185(m)	4	4	4
Potassium	ppm ASTM D5185(m) >20	<1	0	<1

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	0	0	0
Nitration	Abs/cm ASTM D7624* >20	9.4	11.8	11.5
Sulfation	Abs/.1mm ASTM D7415* >30	20.8	22.6	22.8

OIL ANALYSIS REPORT

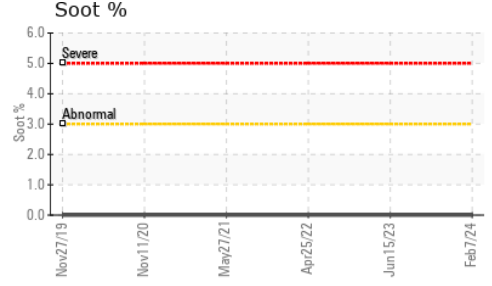
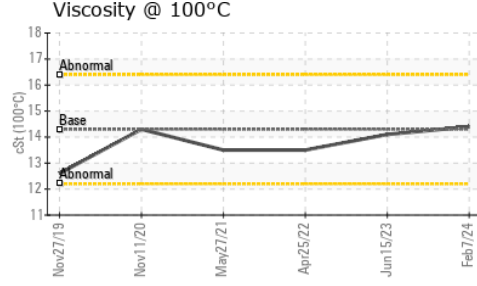
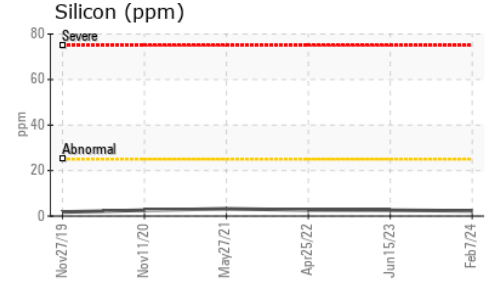
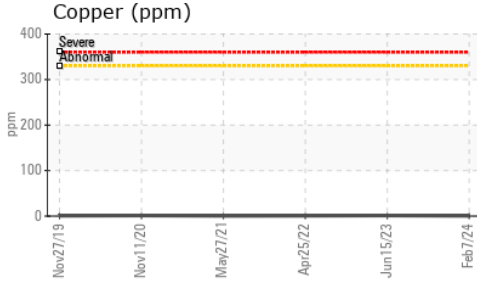
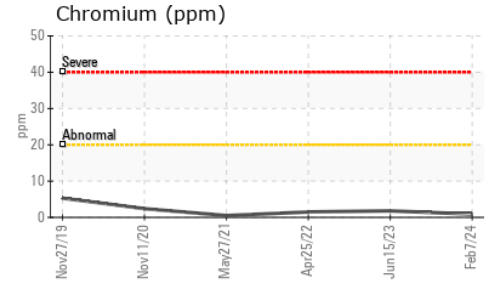
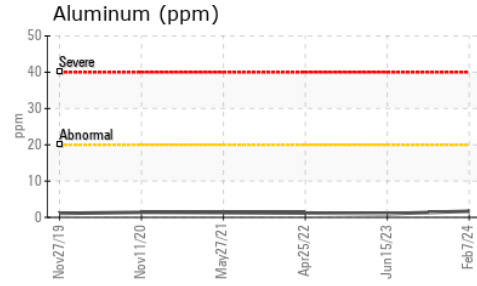
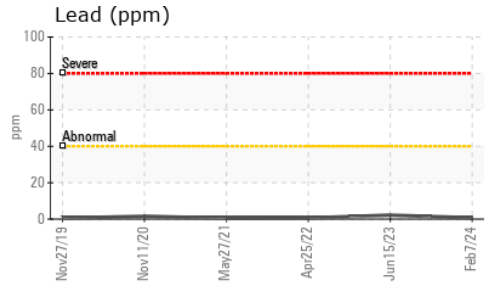
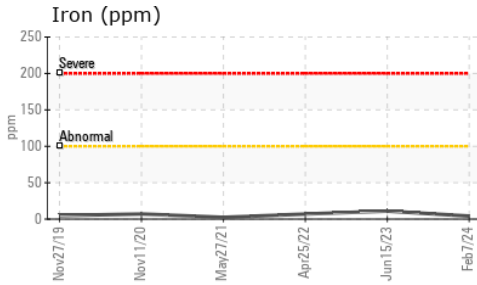


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	20.3	25.5	22.8

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)	95.1	88.7	89.5	83.9
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	14.4	14.1	13.5
Viscosity Index (VI)	Scale	ASTM D2270*	169	168	162	163

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0082054 **Received** : 14 Feb 2024
Lab Number : **02615550** **Tested** : 14 Feb 2024
Unique Number : 5724645 **Diagnosed** : 14 Feb 2024 - Wes Davis
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: Bill Acton
 bacton@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.

T:
F: