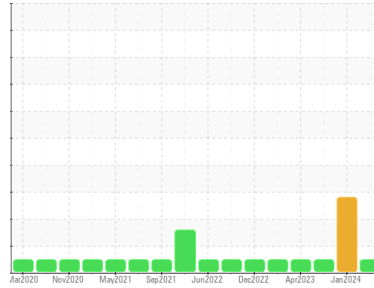


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
DR167

Component
Diesel Engine

Fluid
PETRO CANADA DURON UHP 5W40 (40 LTR)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected 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		PC0082052	PC0078388	PC0078016
Sample Date	Client Info		30 Jan 2024	18 Jan 2024	13 Dec 2023
Machine Age	hrs	Client Info	14627	14622	14469
Oil Age	hrs	Client Info	250	250	250
Oil Changed	Client Info		Not Chngd	Changed	Changed
Sample Status			NORMAL	SEVERE	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
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	6	23	38
Chromium	ppm	ASTM D5185(m) >20	0	2	<1
Nickel	ppm	ASTM D5185(m) >4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m) >3	0	0	0
Aluminum	ppm	ASTM D5185(m) >20	1	3	1
Lead	ppm	ASTM D5185(m) >40	<1	0	1
Copper	ppm	ASTM D5185(m) >330	1	<1	4
Tin	ppm	ASTM D5185(m) >15	0	0	<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) 65	57	20	36
Barium	ppm	ASTM D5185(m) 0	0	0	0
Molybdenum	ppm	ASTM D5185(m) 65	54	27	57
Manganese	ppm	ASTM D5185(m) 0	0	0	0
Magnesium	ppm	ASTM D5185(m) 1160	1058	526	1076
Calcium	ppm	ASTM D5185(m) 820	780	398	805
Phosphorus	ppm	ASTM D5185(m) 1160	987	478	976
Zinc	ppm	ASTM D5185(m) 1260	1111	563	1152
Sulfur	ppm	ASTM D5185(m) 3000	2861	1292	2768
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

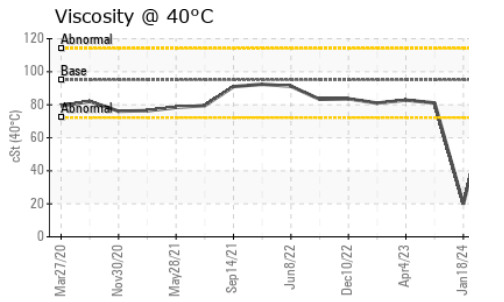
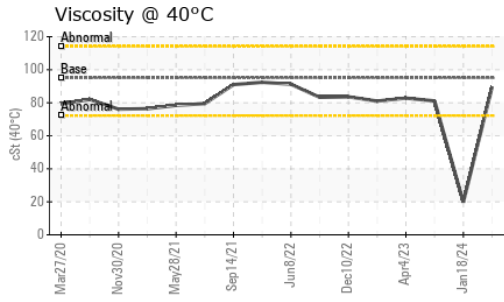
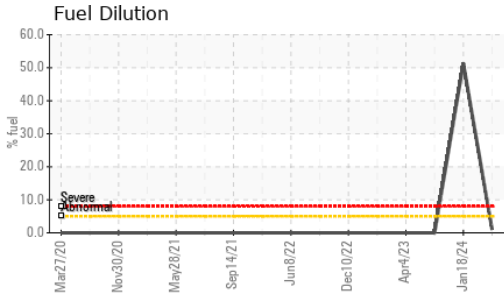
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	5	7	3
Sodium	ppm	ASTM D5185(m)	3	2	4
Potassium	ppm	ASTM D5185(m) >20	<1	<1	<1
Fuel	%	ASTM D7593* >5	1	51.3	<1.0

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	0	0.1	0.4
Nitration	Abs/cm	ASTM D7624* >20	6.7	8.7	9.3
Sulfation	Abs/.1mm	ASTM D7415* >30	19.7	17.4	21.2

OIL ANALYSIS REPORT

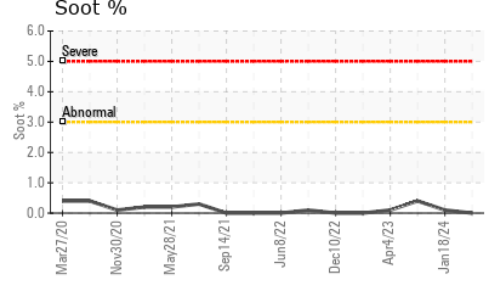
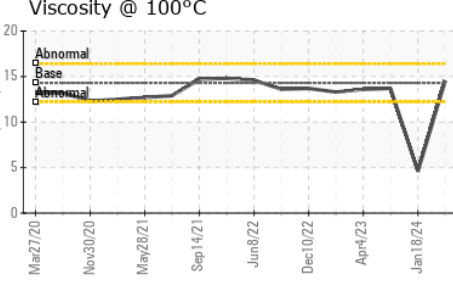
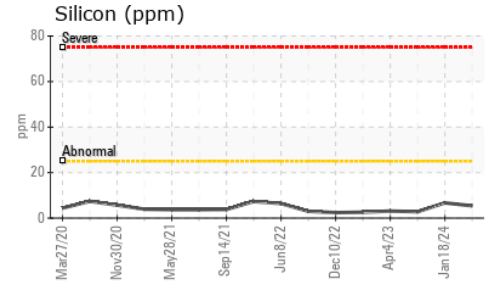
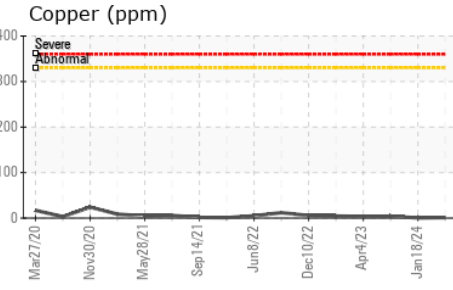
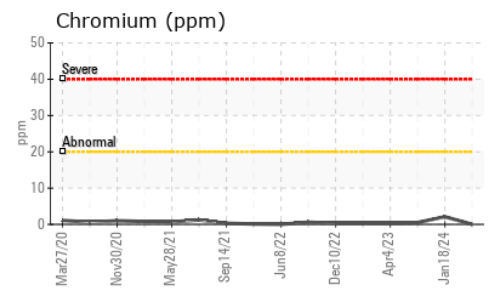
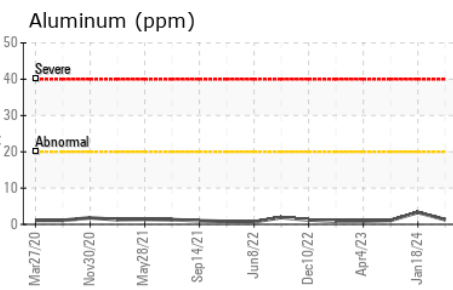
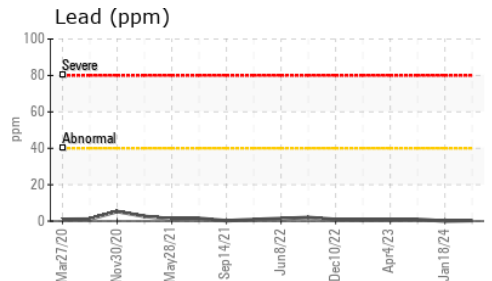
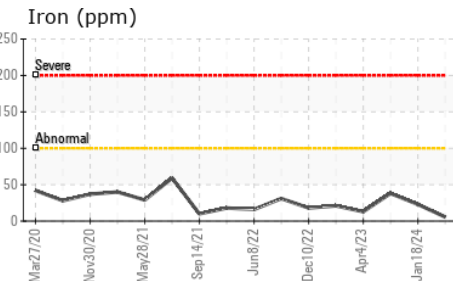


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	17.0	15.1	19.0

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	89.6	▲ 19.8	81.1
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	14.5	▲ 4.6	13.7
Viscosity Index (VI)	Scale	ASTM D2270*	169	168	155	173

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations
Sample No. : PC0082052 **Received** : 01 Feb 2024 151 Ram Forest Rd,
Lab Number : **02612721** **Diagnosed** : 02 Feb 2024 Stouffville, ON
Unique Number : 5721816 **Diagnostician** : Wes Davis CA L4A 2G8
Test Package : MOB 1 (Additional Tests: KV40, PercentFuel, VI)
 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.