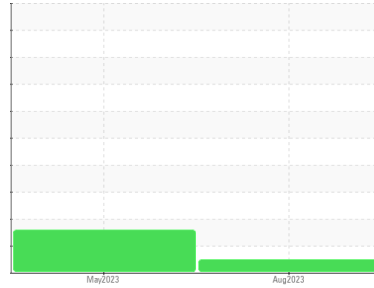


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
DR192
Component
Diesel Engine
Fluid
PETRO CANADA DURON UHP 5W40 (--- 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	PC0078042	PC0075325	---
Sample Date	Client Info	03 Aug 2023	17 May 2023	---
Machine Age	hrs	Client Info	0	1090
Oil Age	hrs	Client Info	0	250
Oil Changed	Client Info	N/A	Changed	---
Sample Status		NORMAL	ABNORMAL	---

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	▲ 3.8	---
Glycol	WC Method	NEG	NEG	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >100	4	6	---
Chromium	ppm ASTM D5185(m) >20	0	0	---
Nickel	ppm ASTM D5185(m) >4	0	0	---
Titanium	ppm ASTM D5185(m)	0	<1	---
Silver	ppm ASTM D5185(m) >3	0	0	---
Aluminum	ppm ASTM D5185(m) >20	<1	2	---
Lead	ppm ASTM D5185(m) >40	<1	<1	---
Copper	ppm ASTM D5185(m) >330	2	2	---
Tin	ppm ASTM D5185(m) >15	<1	<1	---
Antimony	ppm ASTM D5185(m)	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) 65	39	41	---
Barium	ppm ASTM D5185(m) 0	0	0	---
Molybdenum	ppm ASTM D5185(m) 65	57	60	---
Manganese	ppm ASTM D5185(m) 0	<1	<1	---
Magnesium	ppm ASTM D5185(m) 1160	1068	1088	---
Calcium	ppm ASTM D5185(m) 820	811	893	---
Phosphorus	ppm ASTM D5185(m) 1160	989	1034	---
Zinc	ppm ASTM D5185(m) 1260	1123	1154	---
Sulfur	ppm ASTM D5185(m) 3000	2659	2764	---
Lithium	ppm ASTM D5185(m)	<1	<1	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	5	6	---
Sodium	ppm ASTM D5185(m)	4	4	---
Potassium	ppm ASTM D5185(m) >20	<1	0	---

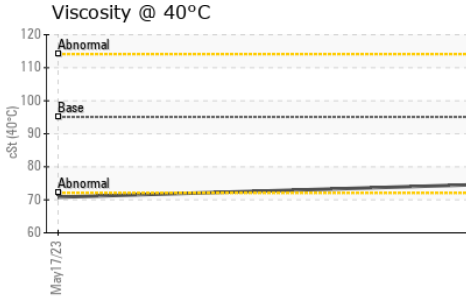
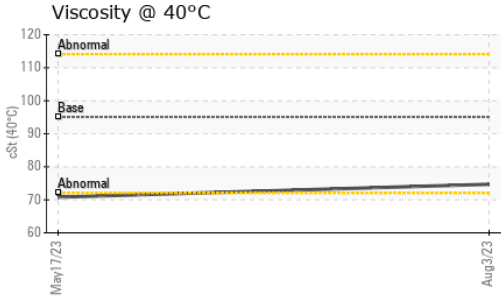
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	0	0	---
Nitration	Abs/cm ASTM D7624* >20	8.2	8.3	---
Sulfation	Abs/.1mm ASTM D7415* >30	21.2	20.0	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414* >25	17.8	17.9	---

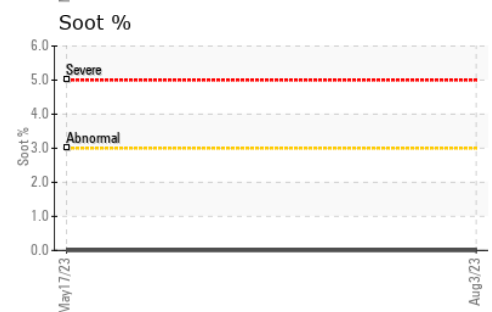
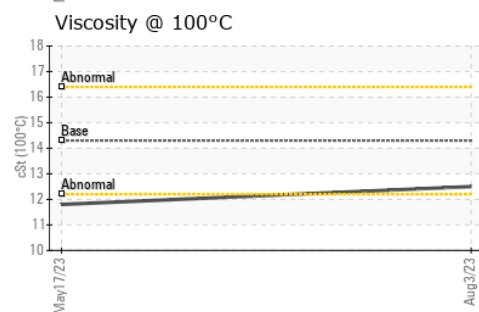
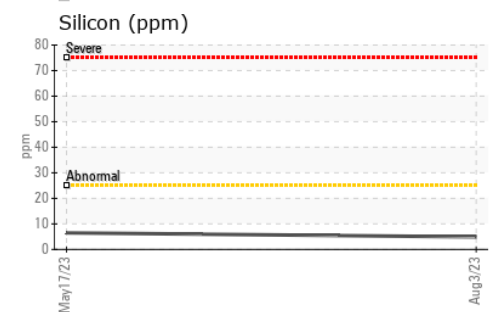
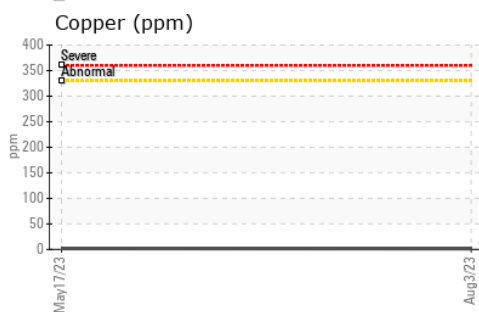
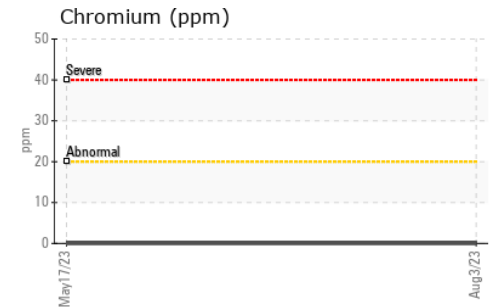
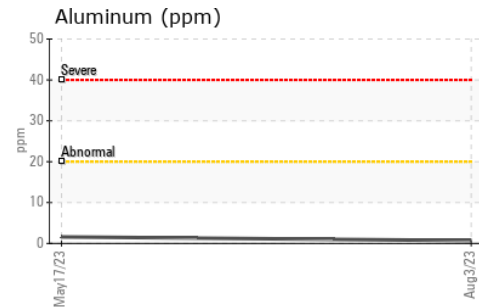
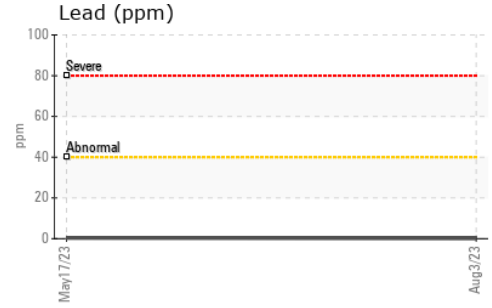
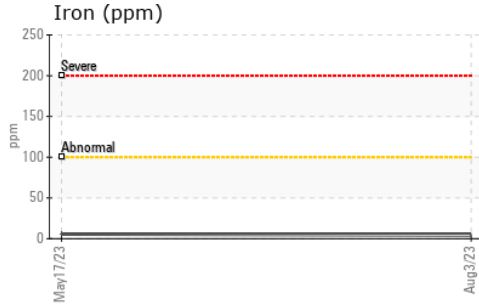
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
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)	95.1	74.7	▲ 70.8
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	12.5	▲ 11.8
Viscosity Index (VI)	Scale	ASTM D2270*	169	166	162

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations
Sample No. : PC0078042 **Received** : 28 Aug 2023
Lab Number : 02578727 **Diagnosed** : 28 Aug 2023
Unique Number : 5631787 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI)

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.

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