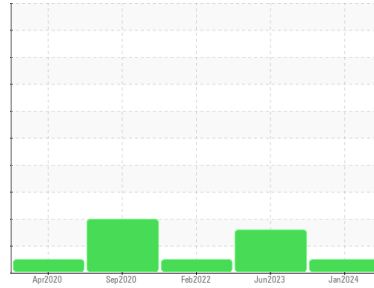


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**OR630**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON UHP 5W40 (--- GAL)**

## 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		<b>PC0082049</b>	PC0075307	PC0056386
Sample Date	Client Info		<b>30 Jan 2024</b>	08 Jun 2023	10 Feb 2022
Machine Age	hrs	Client Info	<b>7759</b>	7235	6751
Oil Age	hrs	Client Info	<b>500</b>	500	0
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	ABNORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	0.0	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	<b>30</b>	22	20
Chromium	ppm	ASTM D5185(m) >20	<b>10</b>	10	5
Nickel	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >20	<b>5</b>	4	4
Lead	ppm	ASTM D5185(m) >40	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m) >330	<b>3</b>	3	3
Tin	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	<1	1
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 65	<b>41</b>	45	45
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 65	<b>66</b>	60	63
Manganese	ppm	ASTM D5185(m) 0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 1160	<b>1275</b>	1175	1276
Calcium	ppm	ASTM D5185(m) 820	<b>978</b>	869	920
Phosphorus	ppm	ASTM D5185(m) 1160	<b>1121</b>	1080	1115
Zinc	ppm	ASTM D5185(m) 1260	<b>1340</b>	1249	1339
Sulfur	ppm	ASTM D5185(m) 3000	<b>2948</b>	2828	2826
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	0

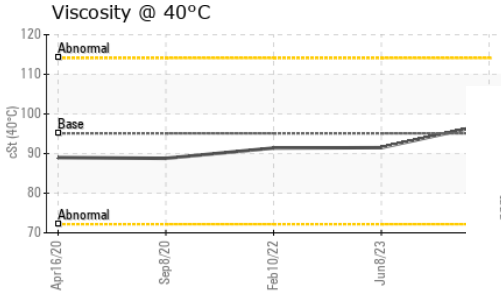
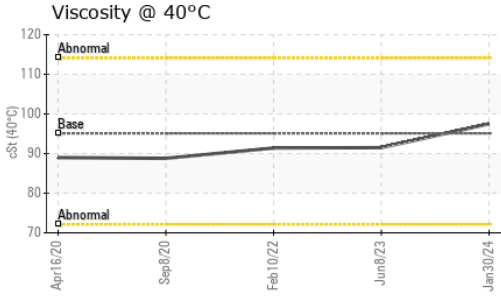
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>8</b>	7	7
Sodium	ppm	ASTM D5185(m)	<b>5</b>	7	5
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	2	<1

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>0.3</b>	0.2	0.2
Nitration	Abs/cm	ASTM D7624* >20	<b>12.3</b>	11.4	12.5
Sulfation	Abs/.1mm	ASTM D7415* >30	<b>23.7</b>	20.8	23.9

# OIL ANALYSIS REPORT

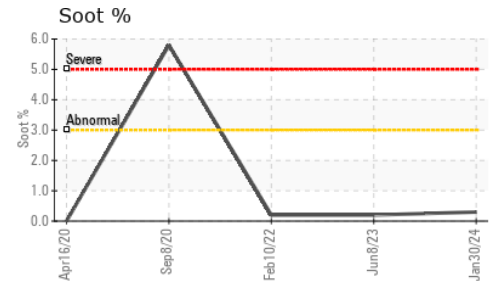
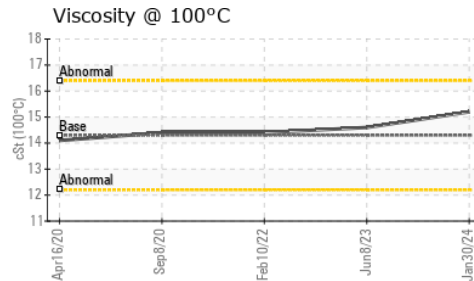
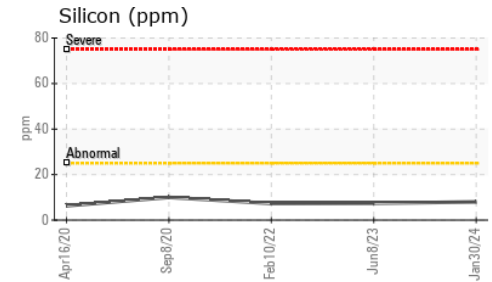
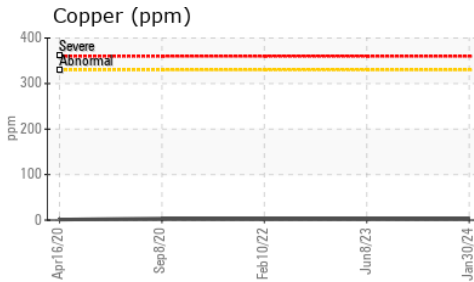
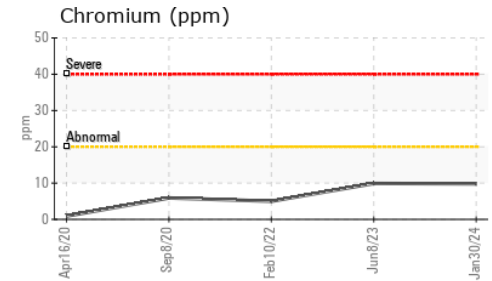
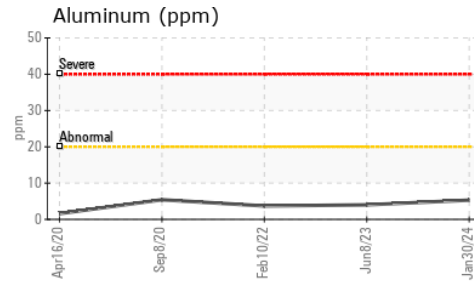
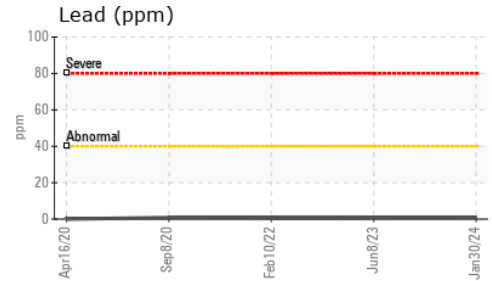
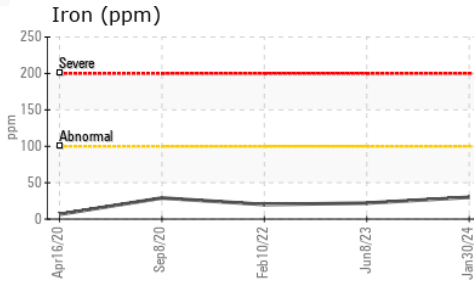


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>24.3</b>	21.1	23.4

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	▲ .2%	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	<b>97.5</b>	91.5	91.4
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	<b>15.2</b>	14.6	14.4
Viscosity Index (VI)	Scale	ASTM D2270*	169	<b>164</b>	166	163

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GPI) - 286 - Shoring & Foundations  
**Sample No.** : PC0082049 **Received** : 01 Feb 2024  
**Lab Number** : 02612728 **Diagnosed** : 01 Feb 2024  
**Unique Number** : 5721823 **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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