

Machine Id

**D-32**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON UHP 5W30 (--- GAL)**

**DIAGNOSIS**

**Recommendation**

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Veuillez préciser la marque et le modèle du composant lors du prochain échantillon.

**Wear**

Les taux d'usure de tous les composants sont normaux.

**Contamination**

Il n'y a aucun indice de contamination dans l'huile.

**Fluid Condition**

Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l'huile. L'état de l'huile permet d'en prolonger l'utilisation.

**SAMPLE INFORMATION**

	method	limit/base	current	history 1	history 2
Sample Number	Client Info		<b>PC0074366</b>	PC0020281	PC0024554
Sample Date	Client Info		<b>15 Jun 2023</b>	06 Aug 2020	13 Jan 2020
Machine Age	hrs	Client Info	<b>28393</b>	21510	0
Oil Age	hrs	Client Info	<b>590</b>	170	0
Oil Changed		Client Info	<b>N/A</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

**CONTAMINATION**

	method	limit/base	current	history 1	history 2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	1.2

**WEAR METALS**

	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185(m) >100	<b>29</b>	7	16
Chromium	ppm	ASTM D5185(m) >20	<b>2</b>	<1	<1
Nickel	ppm	ASTM D5185(m) >4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >20	<b>4</b>	2	5
Lead	ppm	ASTM D5185(m) >40	<b>2</b>	0	<1
Copper	ppm	ASTM D5185(m) >330	<b>6</b>	<1	<1
Tin	ppm	ASTM D5185(m) >15	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	<1
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	history 1	history 2
Boron	ppm	ASTM D5185(m) 0	<b>8</b>	27	100
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 64	<b>61</b>	56	69
Manganese	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 1160	<b>1074</b>	1080	701
Calcium	ppm	ASTM D5185(m) 820	<b>887</b>	799	1202
Phosphorus	ppm	ASTM D5185(m) 1160	<b>1002</b>	1021	771
Zinc	ppm	ASTM D5185(m) 1260	<b>1192</b>	1203	925
Sulfur	ppm	ASTM D5185(m) 3000	<b>2633</b>	2820	2655
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

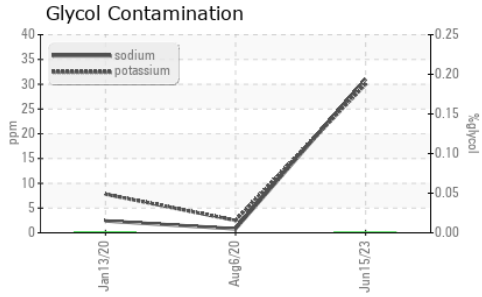
**CONTAMINANTS**

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m) >25	<b>11</b>	6	5
Sodium	ppm	ASTM D5185(m)	<b>31</b>	<1	2
Potassium	ppm	ASTM D5185(m) >20	<b>30</b>	2	8
Glycol	%	ASTM D7922*	<b>0.0</b>	NEG	0.0

**INFRA-RED**

	method	limit/base	current	history 1	history 2
Soot %	%	ASTM D7844* >3	<b>0.6</b>	0.2	0.2
Nitration	Abs/cm	ASTM D7624* >20	<b>12.9</b>	8.8	9.8
Sulfation	Abs/.1mm	ASTM D7415* >30	<b>24.8</b>	20.2	23.2

# OIL ANALYSIS REPORT

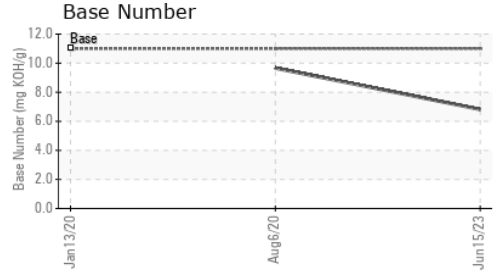
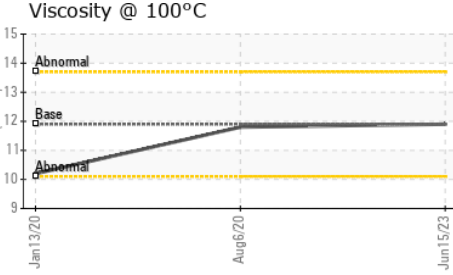
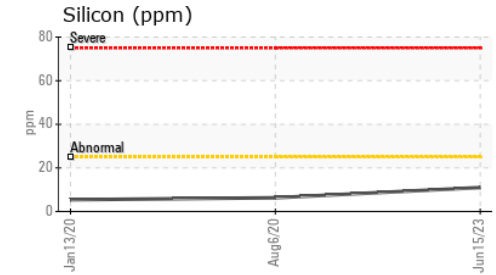
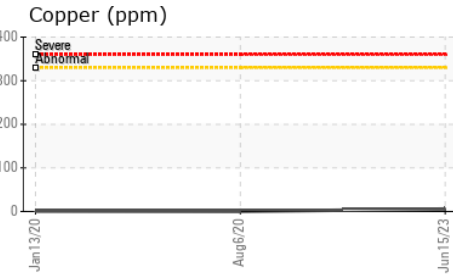
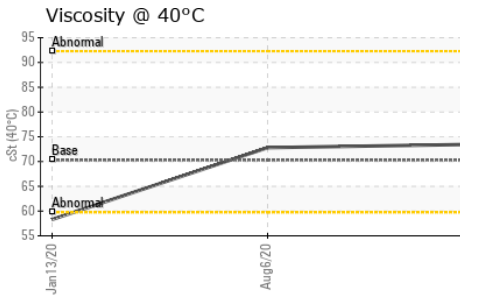
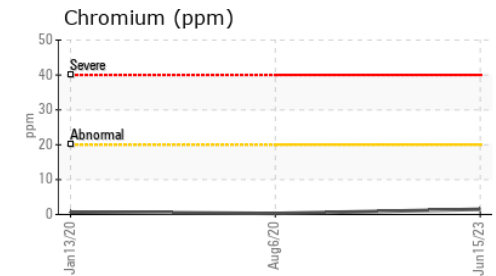
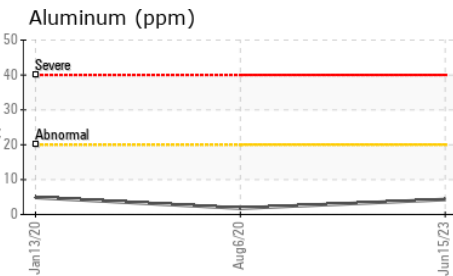
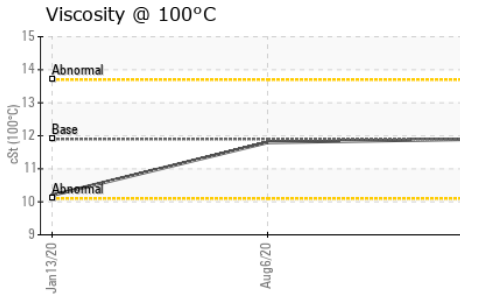
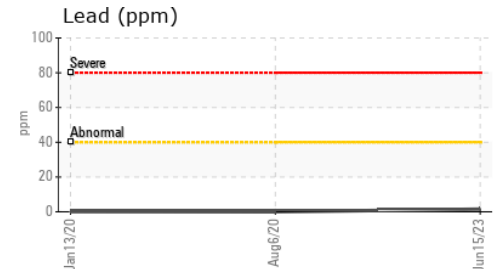
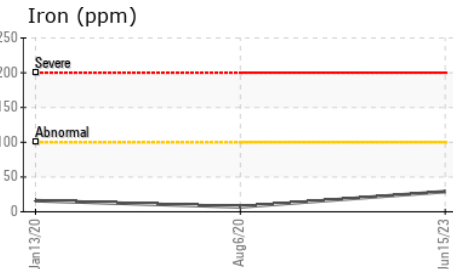
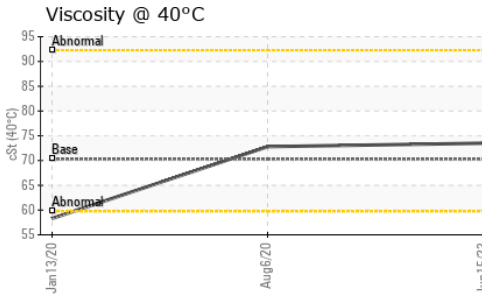


FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>24.2</b>	18.0	15.0
Base Number (BN)	mg KOH/g	ASTM D2896*	11.0	<b>6.82</b>	9.66	---

VISUAL		method	limit/base	current	history 1	history 2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D7279(m)	70.3	<b>73.5</b>	72.8	58.3
Visc @ 100°C	cSt	ASTM D7279(m)	11.9	<b>11.9</b>	11.8	10.2
Viscosity Index (VI)	Scale	ASTM D2270*	161	<b>157</b>	157	164

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0074366 **Received** : 22 Jun 2023  
**Lab Number** : 02565842 **Diagnosed** : 22 Jun 2023  
**Unique Number** : 5602888 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: Glycol, KV40, VI )

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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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