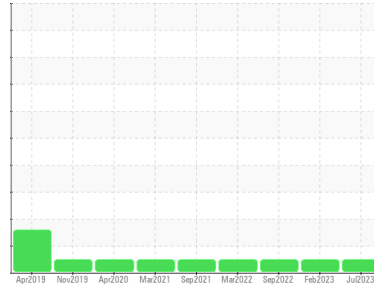


Machine Id  
**8107**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON HP 15W40 (--- LTR)**



## DIAGNOSIS

### Recommendation

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

### Wear

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

### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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	history1	history2
Sample Number	Client Info			<b>PC0074559</b>	PC0068808	PC0063630
Sample Date	Client Info			<b>17 Jul 2023</b>	17 Feb 2023	09 Sep 2022
Machine Age	kms	Client Info		<b>560240</b>	0	0
Oil Age	kms	Client Info		<b>60605</b>	8418	114741
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

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

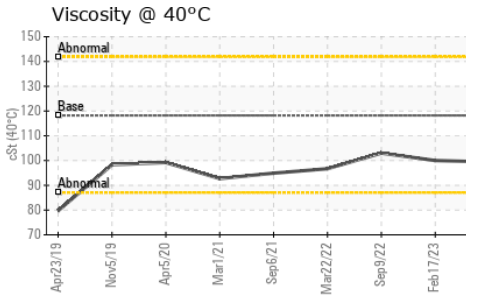
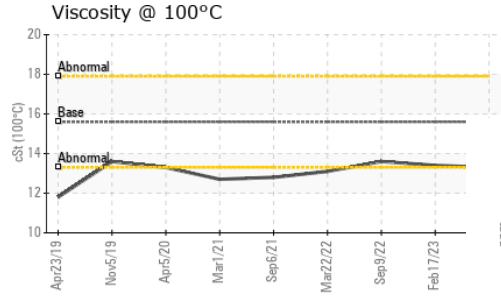
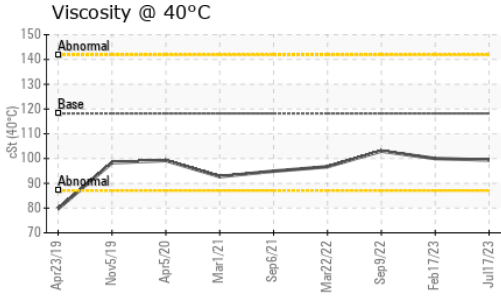
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	<b>25</b>	24	35
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>6</b>	7	5
Lead	ppm	ASTM D5185(m)	>40	<b>2</b>	1	2
Copper	ppm	ASTM D5185(m)	>330	<b>6</b>	7	6
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	<1
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)	0	<b>2</b>	<1	<1
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>61</b>	61	60
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>1002</b>	1016	971
Calcium	ppm	ASTM D5185(m)	1070	<b>1055</b>	1160	1221
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1023</b>	1091	1038
Zinc	ppm	ASTM D5185(m)	1270	<b>1203</b>	1231	1229
Sulfur	ppm	ASTM D5185(m)	2060	<b>2206</b>	2354	2207
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	4	4
Sodium	ppm	ASTM D5185(m)		<b>6</b>	5	6
Potassium	ppm	ASTM D5185(m)	>20	<b>8</b>	9	4

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>0.5</b>	0.1	0.5
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.9</b>	7.5	9.6
Sulfation	Abs/1mm	ASTM D7415*	>30	<b>22.5</b>	23.0	23.2

# OIL ANALYSIS REPORT

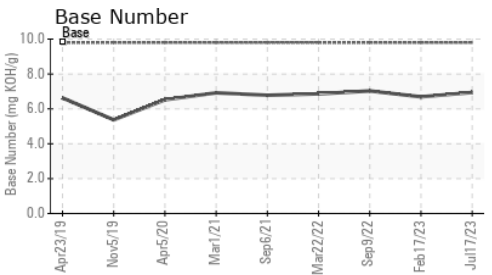
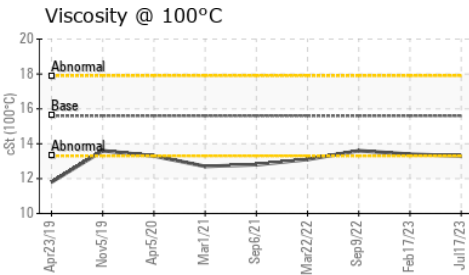
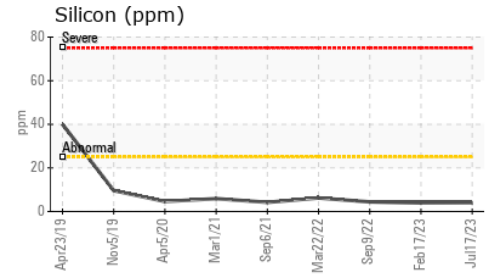
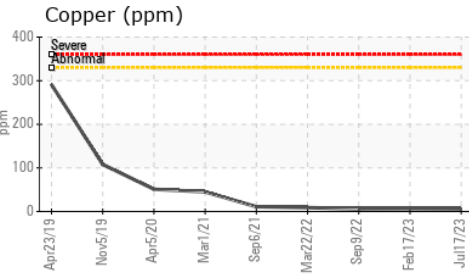
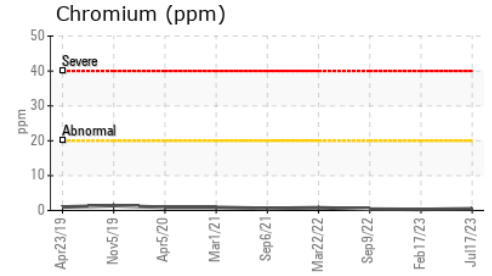
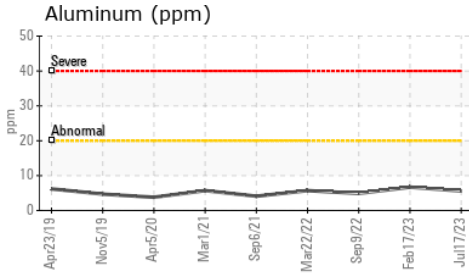
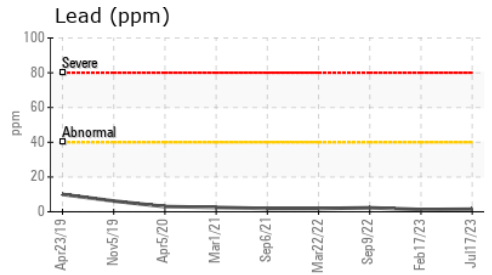
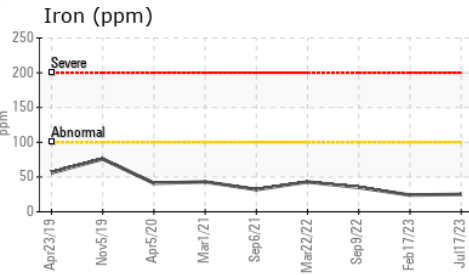


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>17.6</b>	13.9	18.9
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	<b>6.94</b>	6.69	7.03

VISUAL		method	limit/base	current	history1	history2
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	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	<b>99.4</b>	100	103
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>13.3</b>	13.4	13.6
Viscosity Index (VI)	Scale	ASTM D2270*	139	<b>132</b>	133	131

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0074559 **Received** : 02 Aug 2023  
**Lab Number** : **02573575** **Diagnosed** : 02 Aug 2023  
**Unique Number** : 5618626 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: KV40, VI )

**TRANSDEV ST-JEAN**  
 720 TROTTER  
 ST-JEAN-SUR-RICHELIEU, QC  
 CA J3B 8T2  
 Contact: Eric Breton  
 eric.breton@transdev.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.