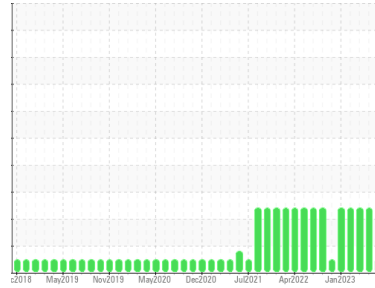


Machine Id  
**3044**

Component  
**Rear Diesel Engine**

Fluid  
**PETRO CANADA DURON HP 15W40 (21 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**

Le test de glycol est négatif. 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. Le AN est acceptable pour ce fluide. L'état de l'huile permet d'en prolonger l'utilisation.

**SAMPLE INFORMATION**

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PC0073966</b>	PC0073532	PC0063186
Sample Date	Client Info	<b>13 Jun 2023</b>	03 May 2023	07 Apr 2023
Machine Age	kms	Client Info	<b>0</b>	752466
Oil Age	kms	Client Info	<b>10343</b>	11204
Oil Changed	Client Info	<b>Changed</b>	Changed	Not Changed
Sample Status		<b>NORMAL</b>	ABNORMAL	ABNORMAL

**CONTAMINATION**

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

**WEAR METALS**

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >100	<b>13</b>	18	10
Chromium	ppm ASTM D5185(m) >20	<b>2</b>	3	2
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>2</b>	3	2
Lead	ppm ASTM D5185(m) >40	<b>0</b>	<1	0
Copper	ppm ASTM D5185(m) >330	<b>1</b>	2	1
Tin	ppm ASTM D5185(m) >15	<b>0</b>	0	0
Antimony	ppm ASTM D5185(m)	<b>&lt;1</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>	4	4
Barium	ppm ASTM D5185(m) 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185(m) 60	<b>64</b>	77	70
Manganese	ppm ASTM D5185(m) 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm ASTM D5185(m) 1010	<b>1013</b>	978	934
Calcium	ppm ASTM D5185(m) 1070	<b>1070</b>	1108	1049
Phosphorus	ppm ASTM D5185(m) 1150	<b>1093</b>	1111	1063
Zinc	ppm ASTM D5185(m) 1270	<b>1235</b>	1203	1170
Sulfur	ppm ASTM D5185(m) 2060	<b>2635</b>	2685	2643
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

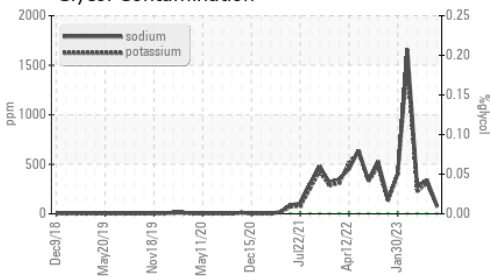
**CONTAMINANTS**

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	<b>4</b>	6	4
Sodium	ppm ASTM D5185(m)	<b>90</b>	▲ 343	▲ 275
Potassium	ppm ASTM D5185(m) >20	<b>81</b>	▲ 307	▲ 228
Glycol	% ASTM D7922*	<b>0.0</b>	0.0	0.0

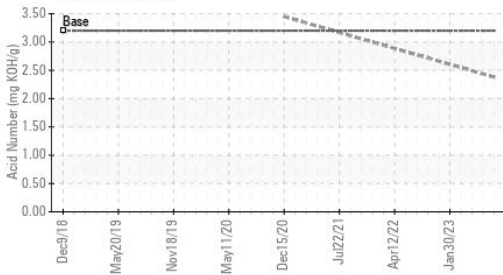
**INFRA-RED**

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	<b>0.1</b>	0.1	0
Nitration	Abs/cm ASTM D7624* >20	<b>7.1</b>	8.3	6.7
Sulfation	Abs/.1mm ASTM D7415* >30	<b>19.8</b>	19.9	17.8

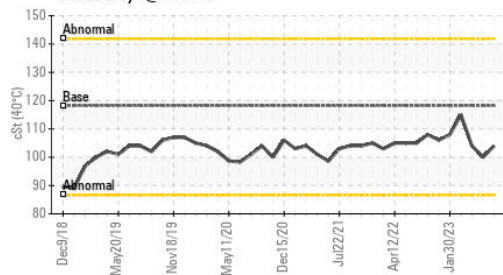
### Glycol Contamination



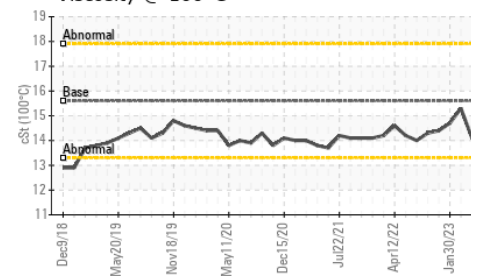
### Acid Number



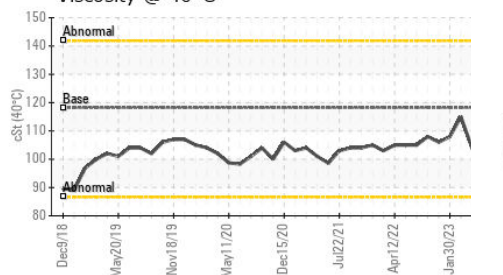
### Viscosity @ 40°C



### Viscosity @ 100°C



### Viscosity @ 40°C



### FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs./1mm ASTM D7414*	>25	14.9	15.2	13.3
Acid Number (AN)	mg KOH/g ASTM D974*	3.2	2.38	---	---
Base Number (BN)	mg KOH/g ASTM D2896*	9.8	9.32	10.20	10.39

### VISUAL

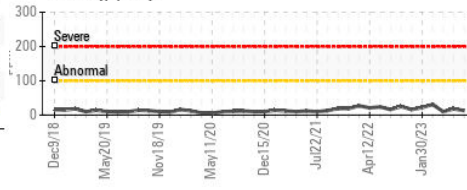
method	limit/base	current	history1	history2	
White Metal	scalar Visual*	NONE	VLITE	---	---
Yellow Metal	scalar Visual*	NONE	NONE	---	---
Precipitate	scalar Visual*	NONE	NONE	---	---
Silt	scalar Visual*	NONE	NONE	---	---
Debris	scalar Visual*	NONE	NONE	---	---
Sand/Dirt	scalar Visual*	NONE	NONE	---	---
Appearance	scalar Visual*	NORML	NORML	---	---
Odor	scalar Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar Visual*	>0.2	NEG	NEG	NEG
Free Water	scalar Visual*		NEG	NEG	NEG

### FLUID PROPERTIES

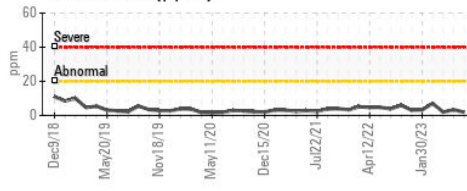
method	limit/base	current	history1	history2	
Visc @ 40°C	cSt ASTM D7279(m)	118.2	104	100	104
Visc @ 100°C	cSt ASTM D7279(m)	15.6	14.2	13.8	14.1
Viscosity Index (VI)	Scale ASTM D2270*	139	139	139	137

### GRAPHS

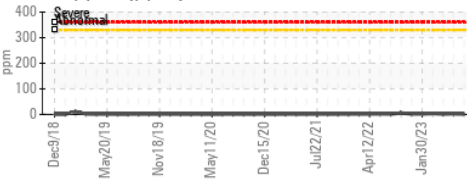
#### Iron (ppm)



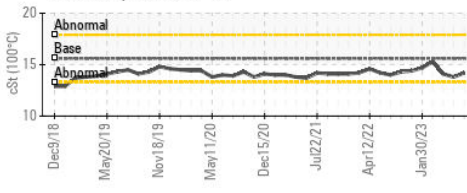
#### Aluminum (ppm)



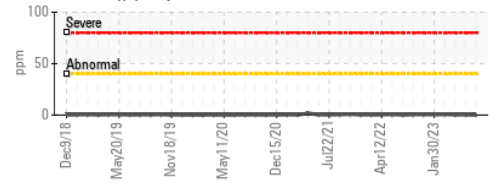
#### Copper (ppm)



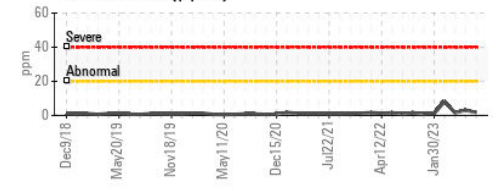
#### Viscosity @ 100°C



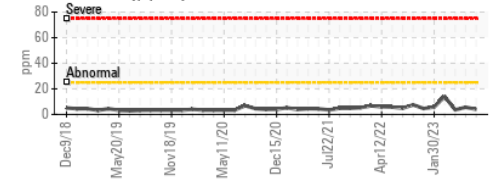
#### Lead (ppm)



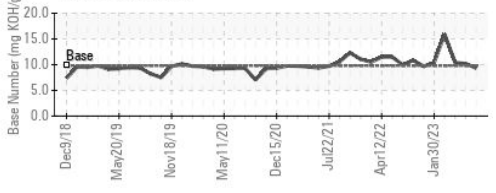
#### Chromium (ppm)



#### Silicon (ppm)



#### Base Number



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0073966 **Received** : 18 Jul 2023  
**Lab Number** : 02570561 **Diagnosed** : 19 Jul 2023  
**Unique Number** : 5607607 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: Glycol, KV40, TAN Auto, TAN Man, VI, Visual )

**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.