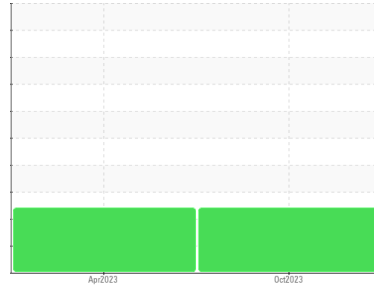




Machine Id
814314

Component
Diesel Engine

Fluid
PETRO CANADA 15W40 (--- GAL)



DIAGNOSIS

Recommendation

Vérifier le niveau du fluide de refroidissement. Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

Wear

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

Contamination

Des produits de traitement de l'eau sont présents, ce qui indique une fuite lente de fluide de refroidissement. Le test de glycol est négatif.

Fluid Condition

Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l'huile. L'état de l'huile est acceptable pour la durée de service (voir recommandation).

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PC0073401	PC0069058	---
Sample Date	Client Info		11 Oct 2023	25 Apr 2023	---
Machine Age	kms	Client Info	696683	659433	---
Oil Age	kms	Client Info	21030	19757	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			ABNORMAL	ABNORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>100	31	26	---
Chromium	ppm	ASTM D5185(m)	>20	2	2	---
Nickel	ppm	ASTM D5185(m)	>4	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>3	<1	0	---
Aluminum	ppm	ASTM D5185(m)	>20	3	3	---
Lead	ppm	ASTM D5185(m)	>40	12	8	---
Copper	ppm	ASTM D5185(m)	>330	1	<1	---
Tin	ppm	ASTM D5185(m)	>15	<1	<1	---
Antimony	ppm	ASTM D5185(m)		0	<1	---
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)		4	3	---
Barium	ppm	ASTM D5185(m)		<1	0	---
Molybdenum	ppm	ASTM D5185(m)		74	81	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)		937	1005	---
Calcium	ppm	ASTM D5185(m)		1344	1219	---
Phosphorus	ppm	ASTM D5185(m)		1096	1136	---
Zinc	ppm	ASTM D5185(m)		1288	1235	---
Sulfur	ppm	ASTM D5185(m)		2704	2746	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

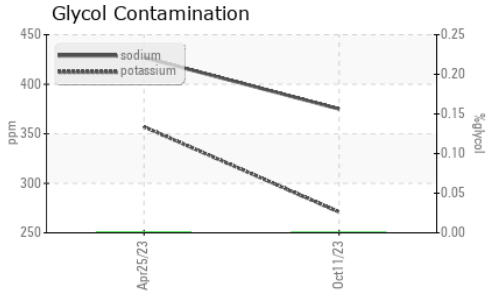
CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	15	14	---
Sodium	ppm	ASTM D5185(m)		▲ 375	▲ 427	---
Potassium	ppm	ASTM D5185(m)	>20	▲ 271	▲ 357	---
Glycol	%	ASTM D7922*		0.0	0.0	---

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0.2	0.2	---
Nitration	Abs/cm	ASTM D7624*	>20	12.4	12.0	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.8	24.1	---

OIL ANALYSIS REPORT

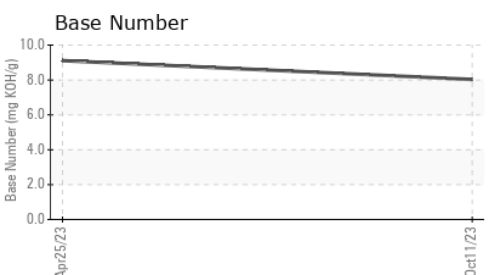
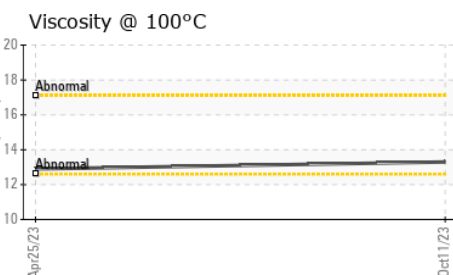
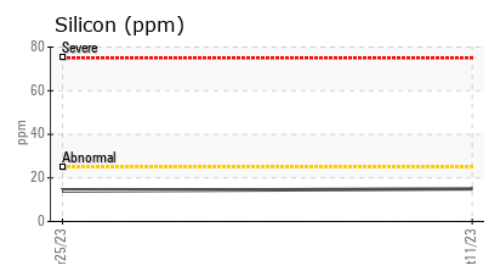
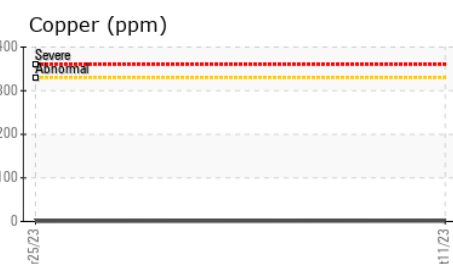
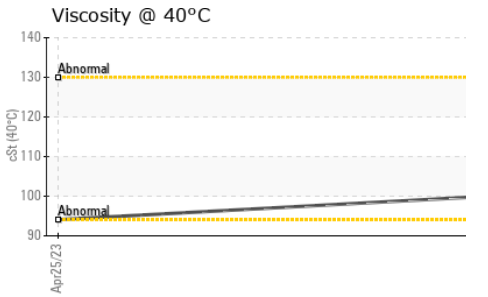
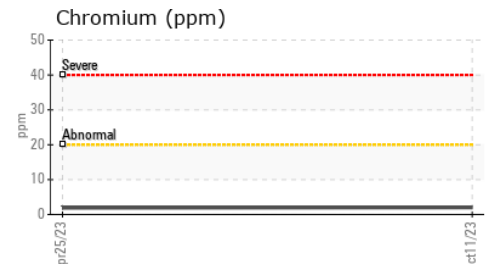
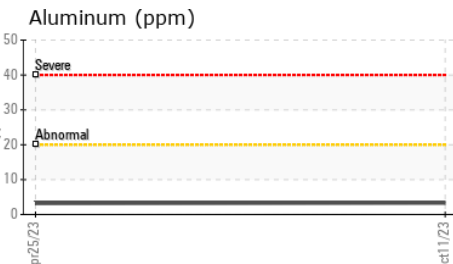
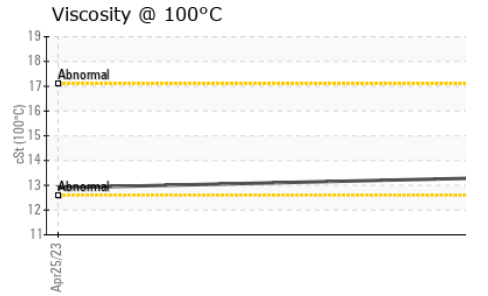
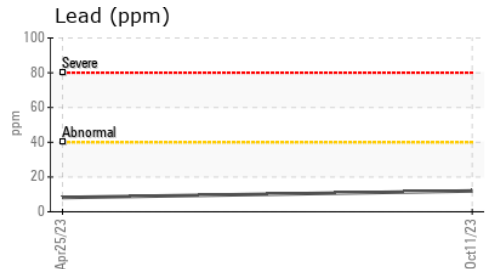
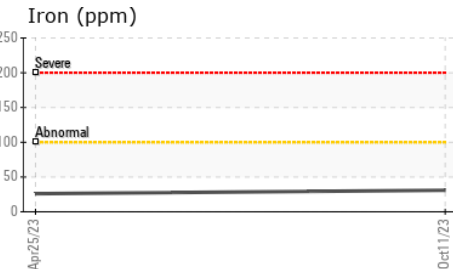
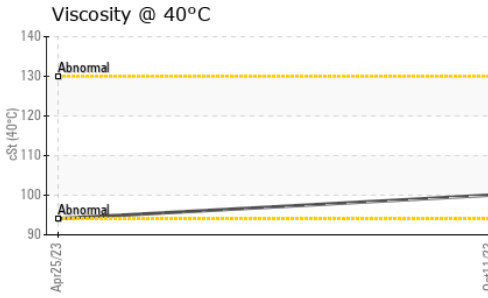


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	21.9	21.5	---
Base Number (BN)	mg KOH/g	ASTM D2896*		8.03	9.11	---

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)		100	94.1	---
Visc @ 100°C	cSt	ASTM D7279(m)		13.3	12.9	---
Viscosity Index (VI)	Scale	ASTM D2270*		131	134	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0073401 **Received** : 16 Oct 2023
Lab Number : 02589188 **Diagnosed** : 18 Oct 2023
Unique Number : 5658254 **Diagnostician** : Kevin Marson
Test Package : MOB 2 (Additional Tests: Glycol, KV40, VI)

TRANSDEV LIMOCAR
 4243 MARCEL-LACASSE
 BOISBRIAND, QC
 CA J7H 1N3
 Contact: Benoit Dumoulin
 benoit.dumoulin@transdev.ca
 T: (450)970-2054
 F: (450)435-1141

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.