



Machine Id
801089
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Nous vous recommandons de vérifier la source de la fuite de 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0096673	GFL0080353	GFL0077167
Sample Date		Client Info		24 Jan 2024	18 Sep 2023	16 Apr 2023
Machine Age	kms	Client Info		358567	304434	276312
Oil Age	kms	Client Info		600	600	600
Filter Age	kms	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

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

Iron	ppm	ASTM D5185(m)	>90	54	78	49
Chromium	ppm	ASTM D5185(m)	>20	2	2	3
Nickel	ppm	ASTM D5185(m)	>2	2	2	3
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	8	5	7
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	2	2	2
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

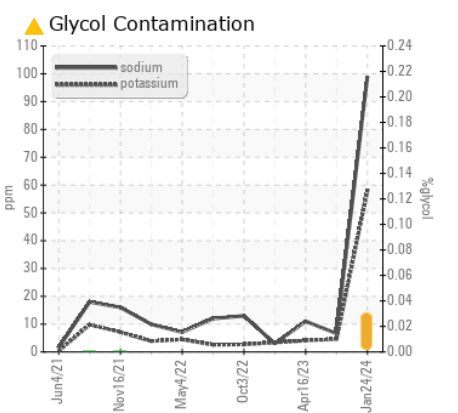
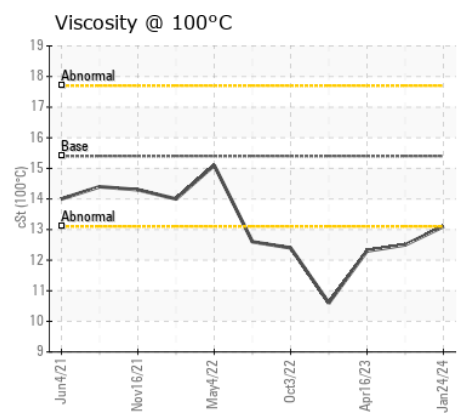
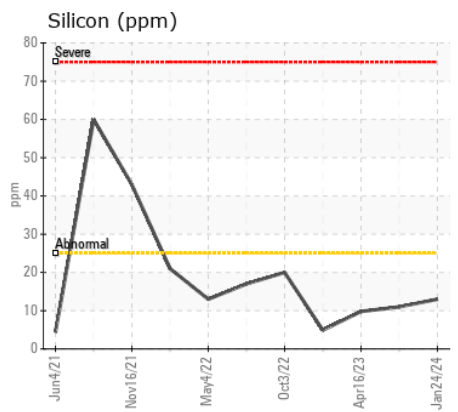
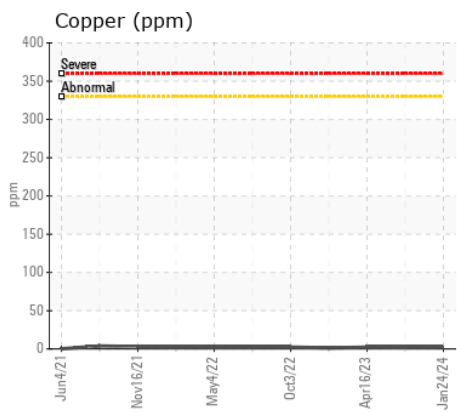
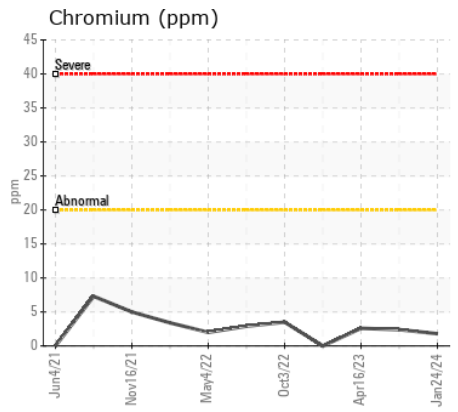
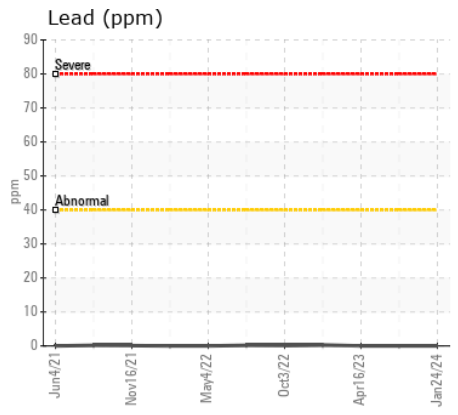
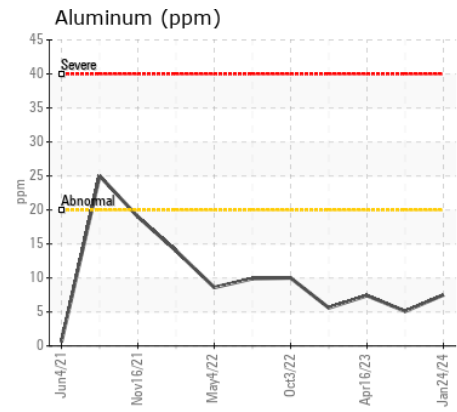
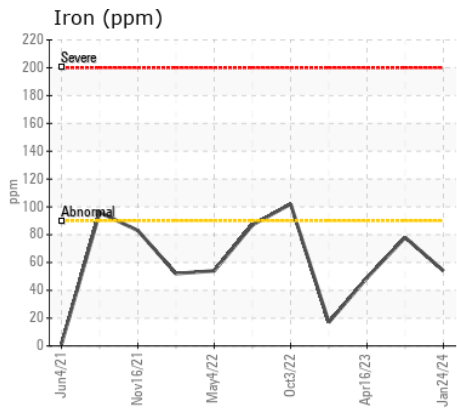
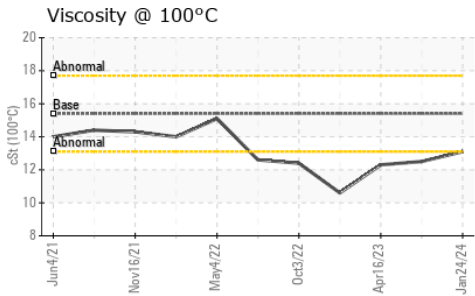
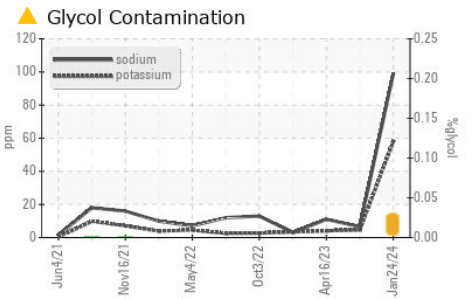
Le test de glycol est positif. Il y a une légère concentration de glycol dans le l'huile.

Silicon	ppm	ASTM D5185(m)	>25	13	11	10
Potassium	ppm	ASTM D5185(m)	>20	58	5	4
Fuel		WC Method	>3.0	<1.0	<1.0	0.7
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.03	NEG	NEG
Soot %	%	ASTM D7844*	>6	0.5	0.9	0.5
Nitration	Abs/cm	ASTM D7624*	>20	13.1	13.3	10.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.8	27.0	23.1
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

FLUID CONDITION

L'huile ne peut plus être utilisée en raison de la présence de contaminants.

Sodium	ppm	ASTM D5185(m)		99	7	11
Boron	ppm	ASTM D5185(m)	0	9	5	10
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	70	69	56
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	1033	1082	837
Calcium	ppm	ASTM D5185(m)	1070	1151	1208	1440
Phosphorus	ppm	ASTM D5185(m)	1150	1075	1072	1086
Zinc	ppm	ASTM D5185(m)	1270	1280	1337	1251
Sulfur	ppm	ASTM D5185(m)	2060	2594	2389	2643
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.2	25.5	20.3
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.1	12.5	12.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0096673
Lab Number : 02616841
Unique Number : 5733951
Test Package : MOB 1 (Additional Tests: Glycol, Visual)

Received : 21 Feb 2024
Tested : 22 Feb 2024
Diagnosed : 22 Feb 2024 - Wes Davis
GFL Environmental - 730 - Chicoutimi - Hauling
 3199 Boul. Talbot
 Chicoutimi, QC
 CA G7H 5B1
 Contact: Yan Houde
 yhoude@matrec.ca
 T: (418)549-8074
 F: (418)549-7973

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.