



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL



Machine Id
7137
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		GFL0107553	GFL0096423	GFL0096412
Sample Date		Client Info		08 Apr 2024	23 Oct 2023	22 Sep 2023
Machine Age	hrs	Client Info		21614	343075	341448
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

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

Iron	ppm	ASTM D5185(m)	>65	15	5	10
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>3	<1	0	0
Titanium	ppm	ASTM D5185(m)	>5	<1	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>35	9	2	5
Lead	ppm	ASTM D5185(m)	>10	0	0	<1
Copper	ppm	ASTM D5185(m)	>180	4	1	3
Tin	ppm	ASTM D5185(m)	>8	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

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

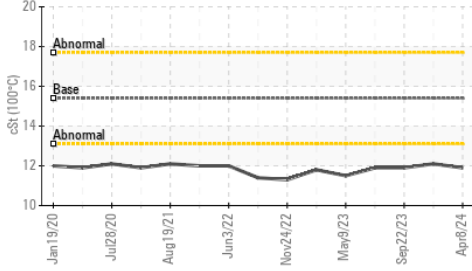
Silicon	ppm	ASTM D5185(m)	>15	4	3	3
Potassium	ppm	ASTM D5185(m)	>20	▲ 95	1	4
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		▲ 0.017	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.7	0.3	0.9
Nitration	Abs/cm	ASTM D7624*	>20	10.1	5.7	8.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.0	18.5	20.4
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

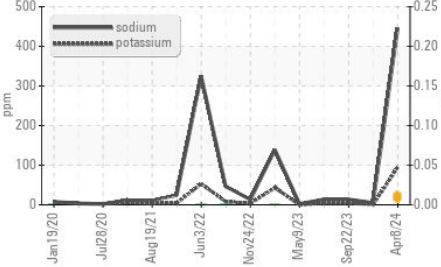
l'huile ne peut plus être utilisée en raison de la présence de contaminants.

Sodium	ppm	ASTM D5185(m)		● 446	5	14
Boron	ppm	ASTM D5185(m)	0	2	2	2
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	60	85	58	62
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	931	924	989
Calcium	ppm	ASTM D5185(m)	1070	1009	1023	1066
Phosphorus	ppm	ASTM D5185(m)	1150	952	983	1030
Zinc	ppm	ASTM D5185(m)	1270	1157	1146	1229
Sulfur	ppm	ASTM D5185(m)	2060	2363	2527	2458
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.6	13.5	14.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	▲ 11.9	12.1	11.9

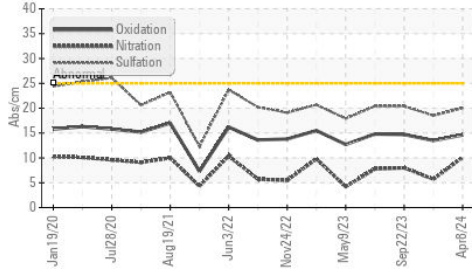
▲ Viscosity @ 100°C



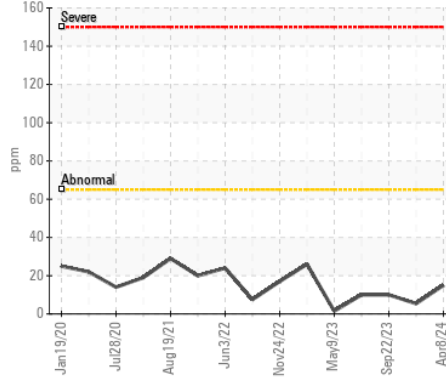
▲ Glycol Contamination



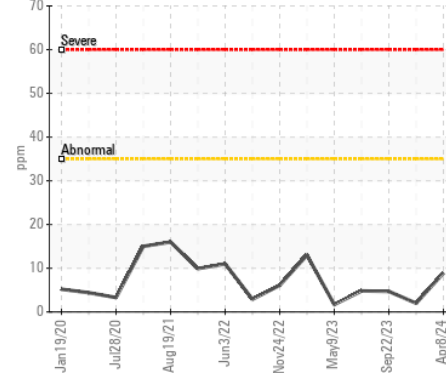
FT-IR (Direct Trend)



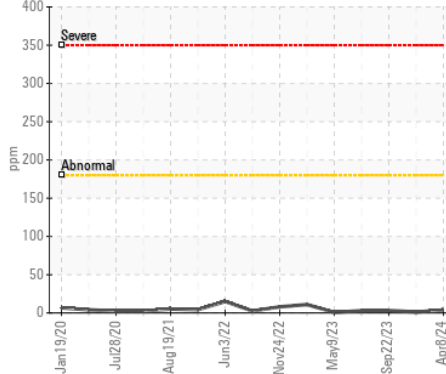
Iron (ppm)



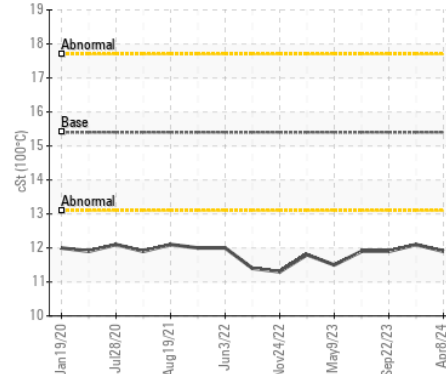
Aluminum (ppm)



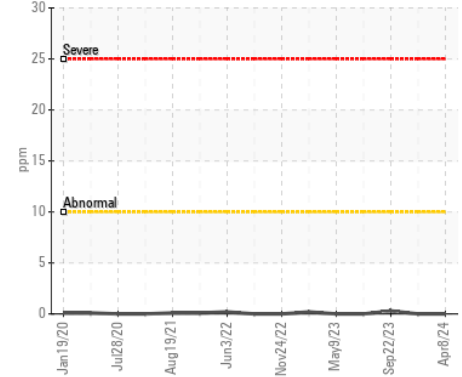
Copper (ppm)



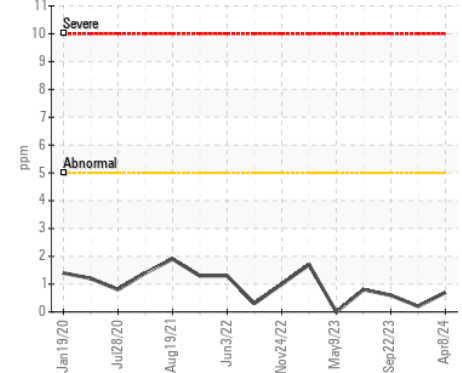
▲ Viscosity @ 100°C



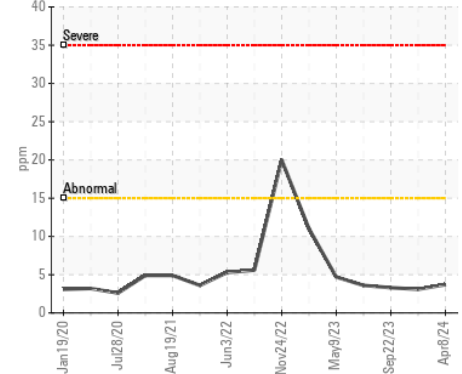
Lead (ppm)



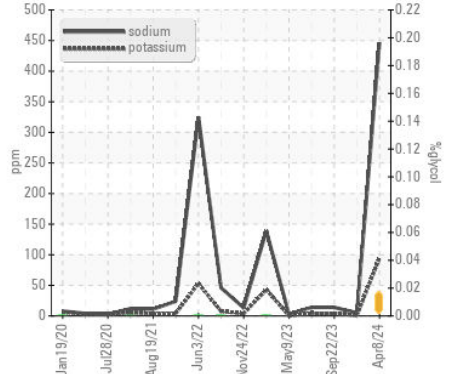
Chromium (ppm)



Silicon (ppm)



▲ Glycol Contamination



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0107553
Lab Number : 02628671
Unique Number : 5761803
Test Package : MOB 1 (Additional Tests: Glycol)

GFL Environmental - 747 - GMA - Solid Waste
 4 Chemin du Tremblay,
 Boucherville, QC
 CA J4B 6Z5
 Contact: Steve Voyer
 svoyer@matrec.ca

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.

T:
 F: