



WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ABNORMAL



Machine Id
8325
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

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. Aucune autre mesure corrective n'est recommandée pour l'instant.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0107614	GFL0087585	GFL0072744
Sample Date		Client Info		16 Feb 2024	07 Sep 2023	23 Mar 2023
Machine Age	kms	Client Info		328724	15429	14966
Oil Age	kms	Client Info		0	600	600
Filter Age	kms	Client Info		0	600	600
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	ATTENTION	ATTENTION

WEAR

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

Iron	ppm	ASTM D5185(m)	>75	44	44	55
Chromium	ppm	ASTM D5185(m)	>5	1	2	3
Nickel	ppm	ASTM D5185(m)	>4	1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>15	8	8	14
Lead	ppm	ASTM D5185(m)	>25	1	2	2
Copper	ppm	ASTM D5185(m)	>100	2	2	2
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	<1

CONTAMINATION

Légère dilution de carburant dans l'huile. 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. Aucun autre contaminant n'a été détecté dans l'huile.

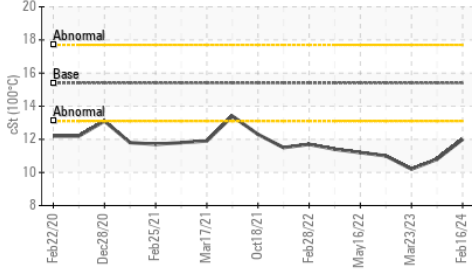
Silicon	ppm	ASTM D5185(m)	>25	15	17	21
Potassium	ppm	ASTM D5185(m)	>20	15	13	42
Fuel	%	ASTM D7593*	>3.0	▲ 2.7	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	0.0	0.0
Soot %	%	ASTM D7844*	>6	1	1	0.7
Nitration	Abs/cm	ASTM D7624*	>20	12.4	12.1	13.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.5	22.4	24.8
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

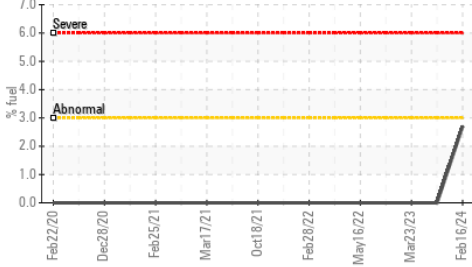
La viscosité de l'échantillon se situe dans la portée de l'SAE 30; nous vous conseillons de vérifier. L'état de l'huile est acceptable pour la durée de service (voir recommandation).

Sodium	ppm	ASTM D5185(m)		● 337	● 317	● 515
Boron	ppm	ASTM D5185(m)	0	2	2	6
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	77	75	83
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	936	910	802
Calcium	ppm	ASTM D5185(m)	1070	1112	978	1163
Phosphorus	ppm	ASTM D5185(m)	1150	977	926	878
Zinc	ppm	ASTM D5185(m)	1270	1174	1130	1043
Sulfur	ppm	ASTM D5185(m)	2060	2620	2289	2363
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.8	18.5	18.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	▲ 12.0	10.8	10.2

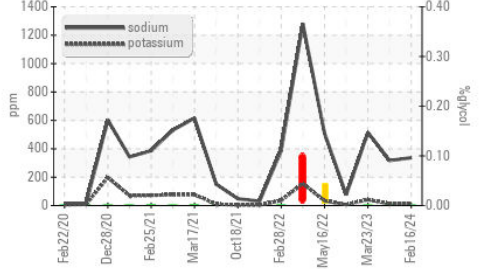
▲ Viscosity @ 100°C



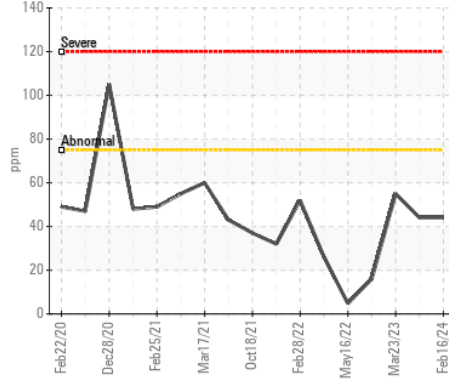
▲ Fuel Dilution



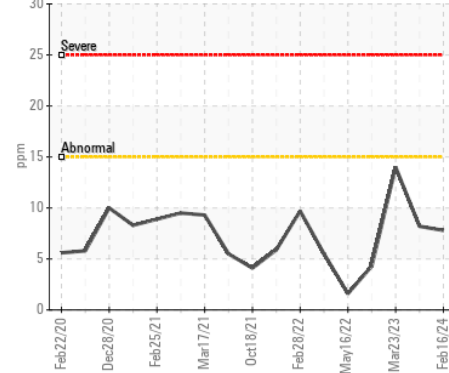
Glycol Contamination



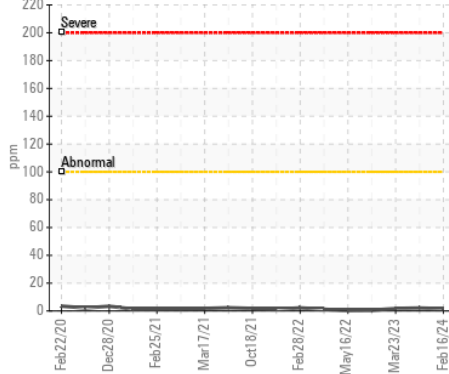
Iron (ppm)



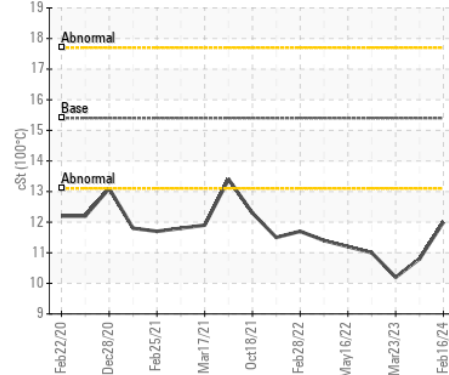
Aluminum (ppm)



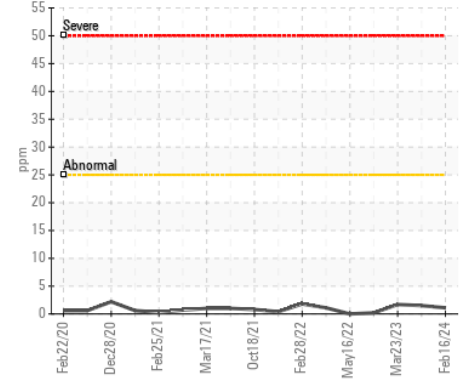
Copper (ppm)



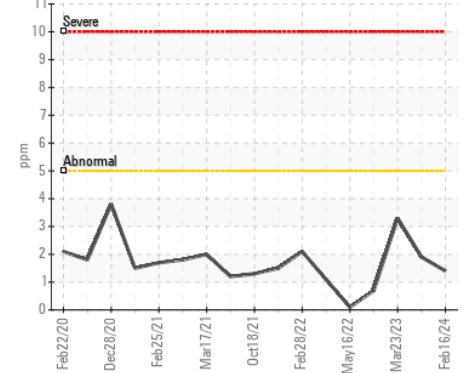
▲ Viscosity @ 100°C



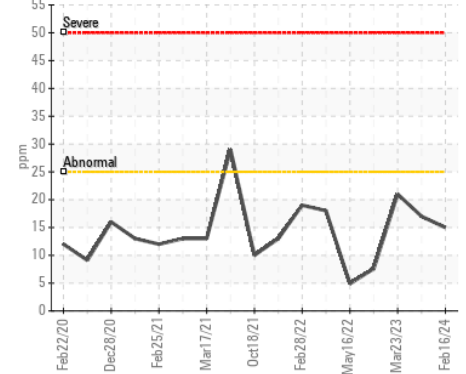
Lead (ppm)



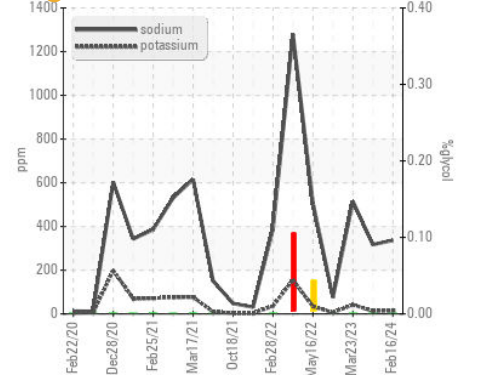
Chromium (ppm)



Silicon (ppm)



● Glycol Contamination



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0107614
Lab Number : 02619775
Unique Number : 5736885
Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, PercentFuel)

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.

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F: