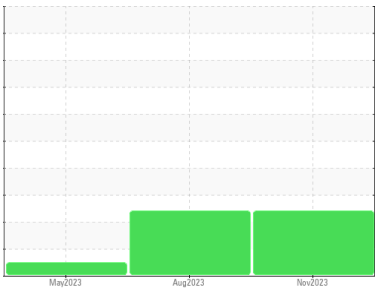
OIL ANALYSIS REPORT

Sample Rating Trend



FUEL

Area
{UNASSIGNED}
Machine Id
420121
Component
1 Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (40 LTR)

DIAGNOSIS

Recommendation

Nous vous recommandons de vérifier le système d'injection de carburant. 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

Quantité élevée de carburant dans l'huile. Les tests confirment la présence de carburant dans l'huile.

Fluid Condition

Il y a du carburant dans l'huile, ce qui réduit la viscosité. l'huile ne peut plus être utilisée en raison de la présence de contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0094162**	GFL0076608	GFL0076624
Sample Date		Client Info		**01 Nov 2023**	14 Aug 2023	25 May 2023
Machine Age	hrs	Client Info		**6581**	6009	5707
Oil Age	hrs	Client Info		**600**	600	600
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**SEVERE**	SEVERE	NORMAL

CONTAMINATION	method	limit/base	current	history1	history2
Glycol	WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	**9**	9	12
Chromium	ppm	ASTM D5185(m)	>20	**0**	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	**0**	0	0
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	<1
Silver	ppm	ASTM D5185(m)	>2	**<1**	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	**2**	1	2
Lead	ppm	ASTM D5185(m)	>40	**6**	<1	<1
Copper	ppm	ASTM D5185(m)	>330	**232**	4	4
Tin	ppm	ASTM D5185(m)	>15	**<1**	<1	<1
Antimony	ppm	ASTM D5185(m)		**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	**2**	3	3
Barium	ppm	ASTM D5185(m)	0	**<1**	0	0
Molybdenum	ppm	ASTM D5185(m)	50	**52**	54	58
Manganese	ppm	ASTM D5185(m)	0	**0**	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	**838**	919	941
Calcium	ppm	ASTM D5185(m)	1050	**943**	993	1155
Phosphorus	ppm	ASTM D5185(m)	995	**868**	995	1052
Zinc	ppm	ASTM D5185(m)	1180	**1034**	1128	1184
Sulfur	ppm	ASTM D5185(m)	2600	**2023**	2419	2443
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

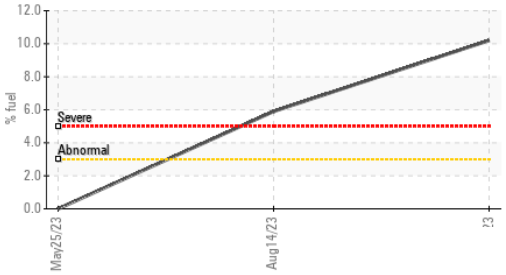
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**4**	6	5
Sodium	ppm	ASTM D5185(m)		**3**	4	3
Potassium	ppm	ASTM D5185(m)	>20	**1**	2	2
Fuel	%	ASTM D7593*	>3.0	**10.2**	5.9	<1.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	**0.1**	0	0.1
Nitration	Abs/cm	ASTM D7624*	>20	**8.3**	6.5	8.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	**19.2**	18.2	19.5

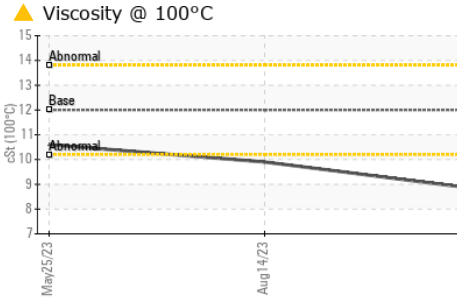
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**15.1**	12.7	16.0

OIL ANALYSIS REPORT

Fuel Dilution



Viscosity @ 100°C

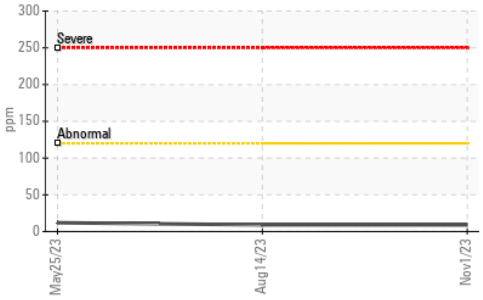


VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

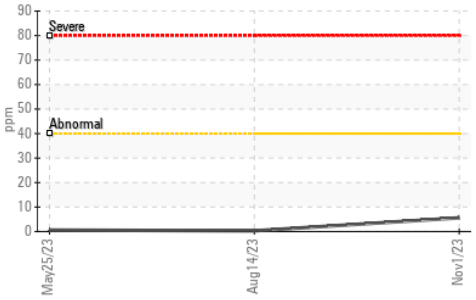
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	▲ **8.8**	▲ 9.9	10.6

GRAPHS

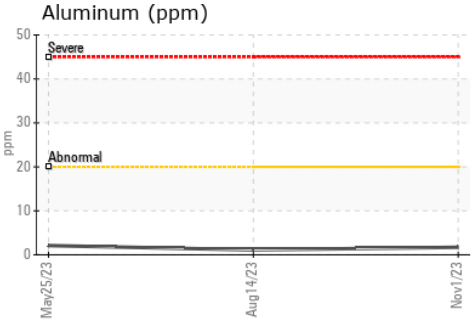
Iron (ppm)



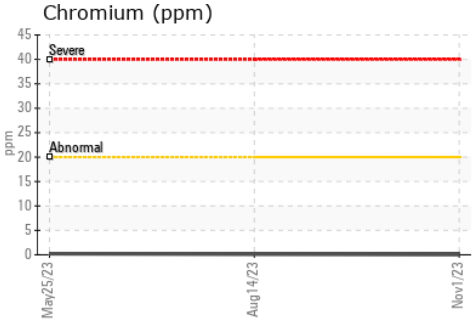
Lead (ppm)



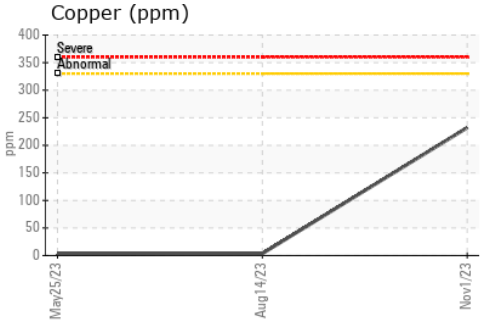
Aluminum (ppm)



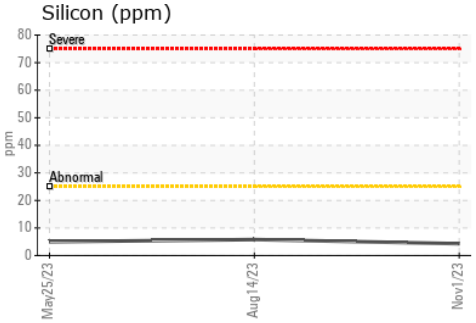
Chromium (ppm)



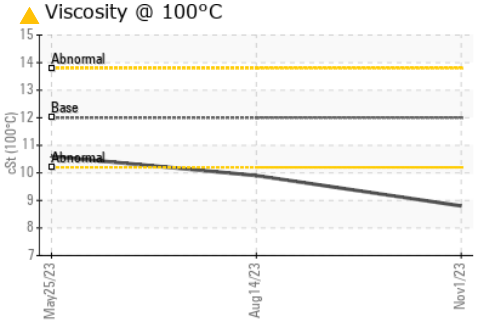
Copper (ppm)



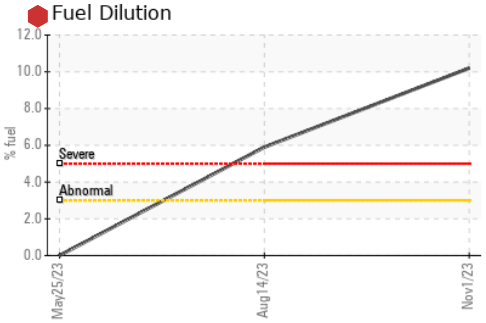
Silicon (ppm)



Viscosity @ 100°C



Fuel Dilution



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 731STOK - Stoke Hauling**
Sample No. : GFL0094162 **Received** : 10 Nov 2023 286 Chemin Cote
Lab Number : 02595571 **Diagnosed** : 13 Nov 2023 Stoke, QC
Unique Number : 5672650 **Diagnostician** : Wes Davis CA J0B 3G0
Test Package : MOB 1 (Additional Tests: PercentFuel) Contact: Robert Sayers
To discuss this sample report, contact Customer Service at 1-800-268-2131. rsayers@matrec.ca
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T:
Validity of results and interpretation are based on the sample and information as supplied. F: