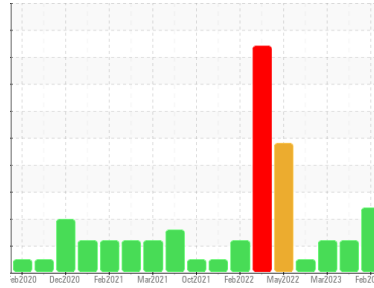




OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Machine Id
8325
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 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. Aucune autre mesure corrective n'est recommandée pour l'instant.

Wear

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

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.

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).

SAMPLE INFORMATION

method	limit/base	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
Oil Changed	Client Info	Changed	N/A	Changed	
Sample Status		ABNORMAL	ATTENTION	ATTENTION	

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2	
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
Antimony	ppm	ASTM D5185(m)	0	0	0
Vanadium	ppm	ASTM D5185(m)	0	0	<1
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	<1

ADDITIVES

method	limit/base	current	history1	history2	
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
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >25	15	17	21
Sodium	ppm	ASTM D5185(m)	337	317	515
Potassium	ppm	ASTM D5185(m) >20	15	13	42
Fuel	%	ASTM D7593* >3.0	2.7	<1.0	<1.0
Glycol	%	ASTM D7922*	0.0	0.0	0.0

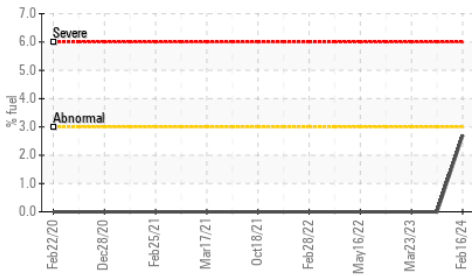
INFRA-RED

method	limit/base	current	history1	history2	
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

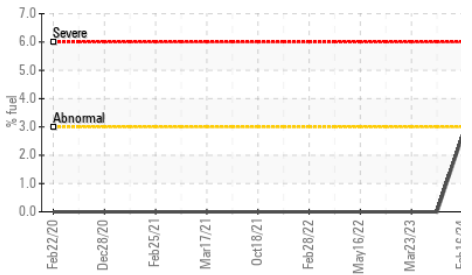


OIL ANALYSIS REPORT

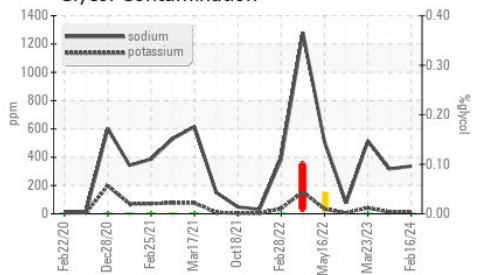
Fuel Dilution



Fuel Dilution



Glycol Contamination



FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs./1mm ASTM D7414*	>25	18.5	18.9

VISUAL

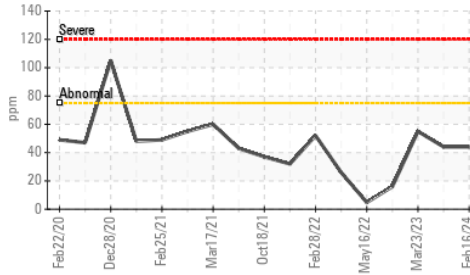
method	limit/base	current	history1	history2
Emulsified Water	scalar Visual*	>0.2	NEG	NEG
Free Water	scalar Visual*	NEG	NEG	NEG

FLUID PROPERTIES

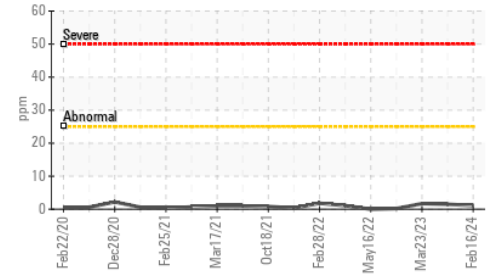
method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D7279(m)	15.4	10.8	10.2

GRAPHS

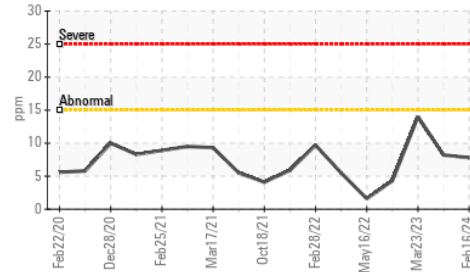
Iron (ppm)



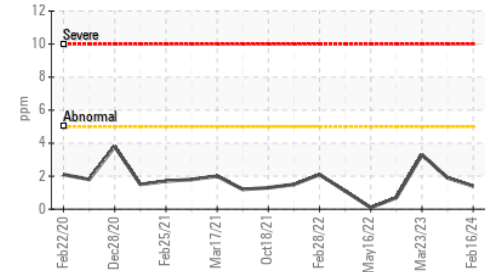
Lead (ppm)



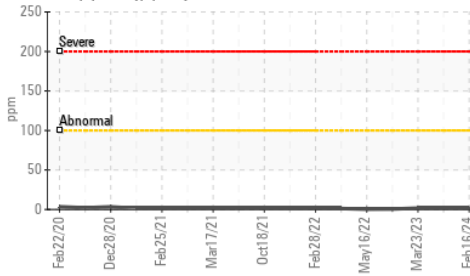
Aluminum (ppm)



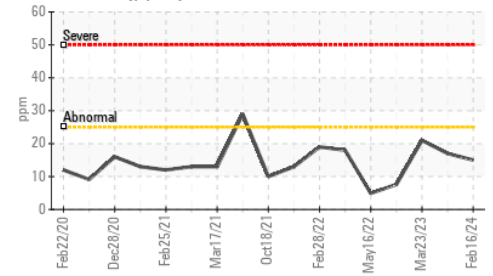
Chromium (ppm)



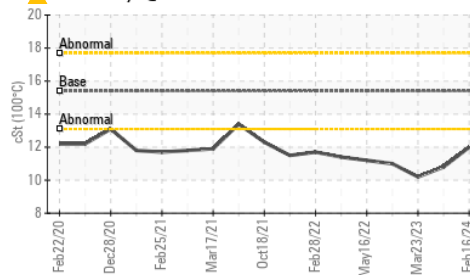
Copper (ppm)



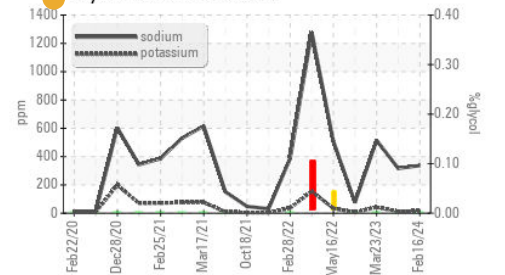
Silicon (ppm)



Viscosity @ 100°C



Glycol Contamination



ISO 17025:2017
Accredited
Laboratory

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: