



OIL ANALYSIS REPORT

Sample Rating Trend

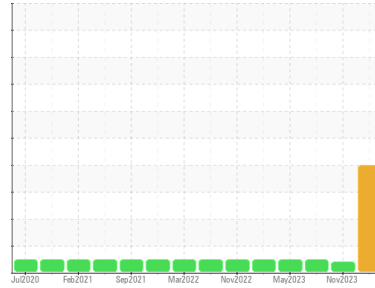
GLYCOL



Machine Id
701088

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)



DIAGNOSIS

Recommendation

Nous vous recommandons de vérifier la source de la fuite de fluide de refroidissement. Nous vous recommandons de vidanger l'huile de ce composant si vous ne l'avez pas déjà fait. Nous vous recommandons de rincer complètement le composant avant de le remplir l'huile. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation. Veuillez noter que la quantité d'eau dans l'huile était trop importante pour procéder à un test de viscosité.

Wear

Les taux de métaux sont typiques pour la période de rodage d'un nouveau composant.

Contamination

Le test de glycol est positif. Légère dilution de carburant dans l'huile. Il y a une légère concentration de glycol dans l'huile. Concentration modérée d'eau dans l'huile. Présence d'eau libre. Aucun autre contaminant n'a été détecté dans l'huile.

Fluid Condition

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		GFL0107536	GFL0096415	GFL0087649
Sample Date	Client Info		22 Jan 2024	13 Nov 2023	07 Aug 2023
Machine Age	kms	Client Info	36220	161032	9257
Oil Age	kms	Client Info	0	0	0
Oil Changed	Client Info		N/A	Changed	Changed
Sample Status			ABNORMAL	ABNORMAL	NORMAL

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) >100	15	5	8
Chromium	ppm	ASTM D5185(m) >20	<1	<1	<1
Nickel	ppm	ASTM D5185(m) >4	1	0	0
Titanium	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m) >3	0	<1	0
Aluminum	ppm	ASTM D5185(m) >20	6	2	3
Lead	ppm	ASTM D5185(m) >40	2	<1	0
Copper	ppm	ASTM D5185(m) >330	29	1	1
Tin	ppm	ASTM D5185(m) >15	1	0	0
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	29	2	1
Barium	ppm	ASTM D5185(m) 0	0	0	0
Molybdenum	ppm	ASTM D5185(m) 50	50	57	61
Manganese	ppm	ASTM D5185(m) 0	0	0	<1
Magnesium	ppm	ASTM D5185(m) 950	721	962	1014
Calcium	ppm	ASTM D5185(m) 1050	857	1049	1055
Phosphorus	ppm	ASTM D5185(m) 995	763	961	1052
Zinc	ppm	ASTM D5185(m) 1180	906	1168	1220
Sulfur	ppm	ASTM D5185(m) 2600	2201	2481	2458
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

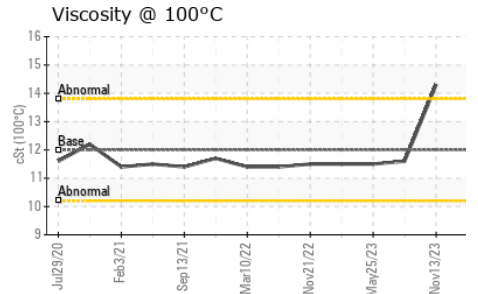
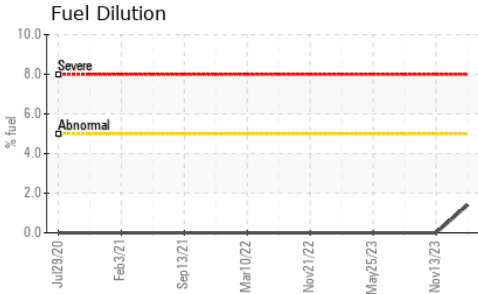
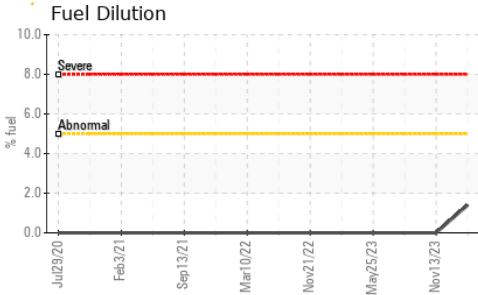
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	8	5	3
Sodium	ppm	ASTM D5185(m)	9	1	2
Potassium	ppm	ASTM D5185(m) >20	4	2	4
Fuel	%	ASTM D7593* >5	1.4	<1.0	<1.0
Glycol	%	ASTM D7922*	▲ 0.035	NEG	NEG

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	0.1	0.1	0.3
Nitration	Abs/cm	ASTM D7624* >20	9.5	5.6	6.9
Sulfation	Abs.1mm	ASTM D7415* >30	19.6	18.7	20.0



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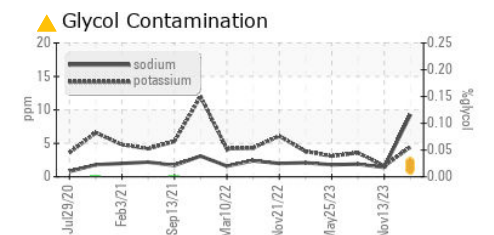
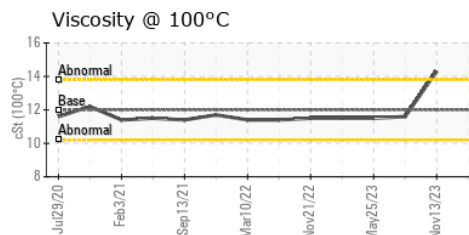
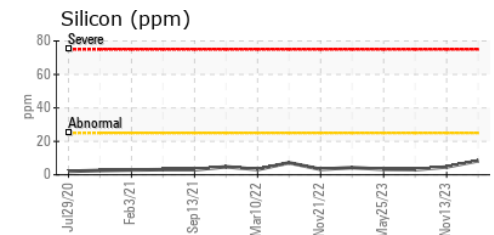
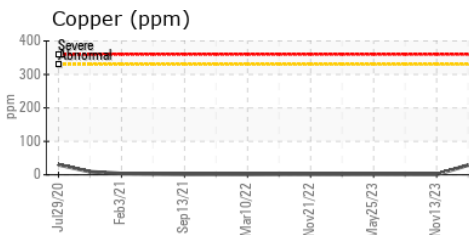
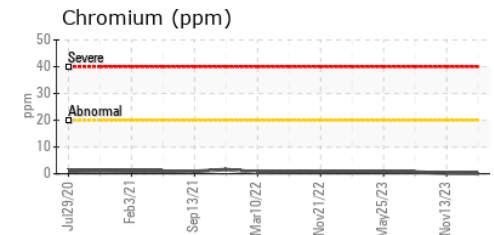
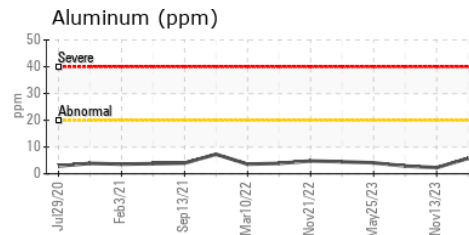
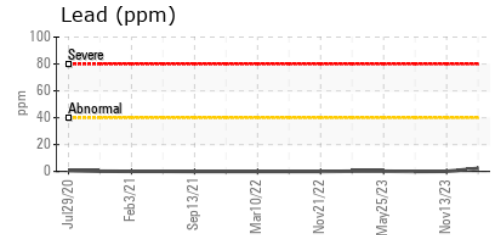
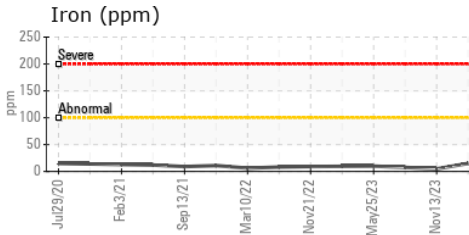


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	21.9	13.8	14.5

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	VLITE	---	---
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	▲.2%	NEG	NEG
Free Water	scalar	Visual*		▲1%	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	---	▲ 14.3	11.6

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 747 - GMA - Solid Waste**
Sample No. : GFL0107536 **Received** : 31 Jan 2024 4 Chemin du Tremblay,
Lab Number : **02612302** **Tested** : 01 Feb 2024 Boucherville, QC
Unique Number : 5721397 **Diagnosed** : 01 Feb 2024 - Bill Quesnel CA J4B 6Z5
Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, PercentFuel, Visual) 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.