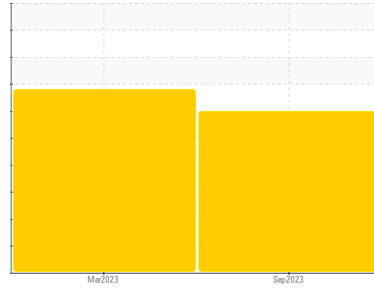




OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL



Machine Id
9263

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 avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. Confirm the source of the lubricant being utilized for top-up/fill. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation. Le fluide était spécifié comme PETRO CANADA DURON SHP 10W30, toutefois, une comparaison avec d'autres fluides indiquent que ce fluide est du SAE 40 Diesel Engine Oil. Veuillez confirmer la viscosité de l'huile et veuillez préciser la marque de votre prochain échantillon.

Wear

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

Contamination

Le test de glycol est positif. Il y a une légère concentration de glycol dans l'huile. Légère concentration de carbone/suie dans l'huile.

Fluid Condition

La viscosité de l'huile est supérieure à la normale. La viscosité de l'échantillon se situe dans la portée de l'SAE 40; nous vous conseillons de vérifier. Ceci, en plus des niveaux d'additifs, indique que la marque ou le type d'huile ne correspond pas à ce qui a été signalé. 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	GFL0089048	GFL0070515	---
Sample Date	Client Info	14 Sep 2023	28 Mar 2023	---
Machine Age	hrs	19209	18665	---
Oil Age	hrs	600	600	---
Oil Changed	Client Info	Changed	Changed	---
Sample Status		ABNORMAL	ABNORMAL	---

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >110	78	23	---
Chromium	ppm ASTM D5185(m) >4	4	<1	---
Nickel	ppm ASTM D5185(m) >2	0	<1	---
Titanium	ppm ASTM D5185(m)	0	<1	---
Silver	ppm ASTM D5185(m) >2	<1	0	---
Aluminum	ppm ASTM D5185(m) >25	24	13	---
Lead	ppm ASTM D5185(m) >45	2	<1	---
Copper	ppm ASTM D5185(m) >85	7	2	---
Tin	ppm ASTM D5185(m) >4	<1	<1	---
Antimony	ppm ASTM D5185(m)	0	0	---
Vanadium	ppm ASTM D5185(m)	0	0	---
Beryllium	ppm ASTM D5185(m)	0	0	---
Cadmium	ppm ASTM D5185(m)	0	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 2	125	▲ 220	---
Barium	ppm ASTM D5185(m) 0	<1	0	---
Molybdenum	ppm ASTM D5185(m) 50	420	▲ 251	---
Manganese	ppm ASTM D5185(m) 0	<1	<1	---
Magnesium	ppm ASTM D5185(m) 950	847	▲ 619	---
Calcium	ppm ASTM D5185(m) 1050	1141	▲ 1539	---
Phosphorus	ppm ASTM D5185(m) 995	994	822	---
Zinc	ppm ASTM D5185(m) 1180	1155	▲ 857	---
Sulfur	ppm ASTM D5185(m) 2600	2604	2307	---
Lithium	ppm ASTM D5185(m)	<1	<1	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >30	45	11	---
Sodium	ppm ASTM D5185(m)	▲ 3624	▲ 763	---
Potassium	ppm ASTM D5185(m) >20	▲ 503	▲ 101	---
Glycol	% ASTM D7922*	▲ 0.013	▲ 0.012	---

INFRA-RED

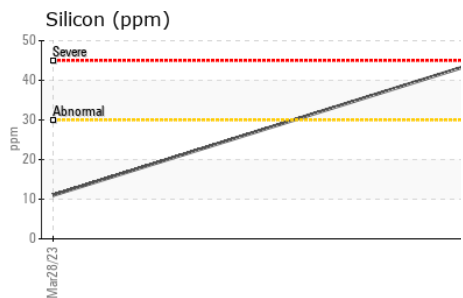
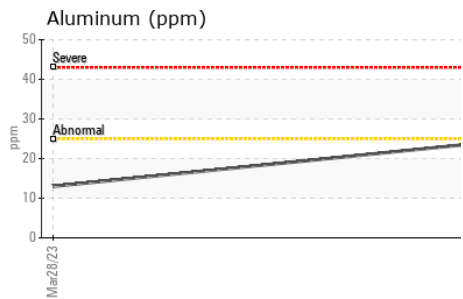
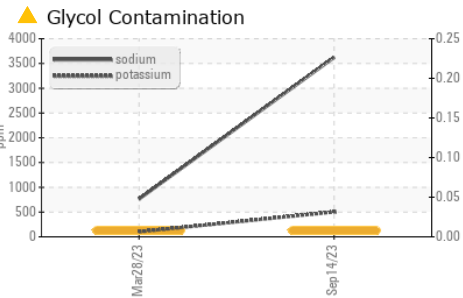
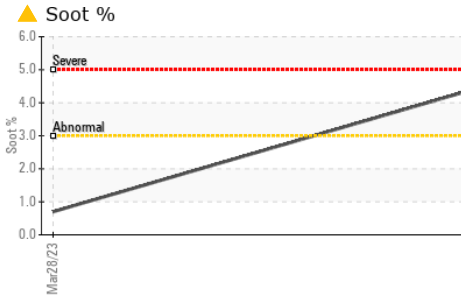
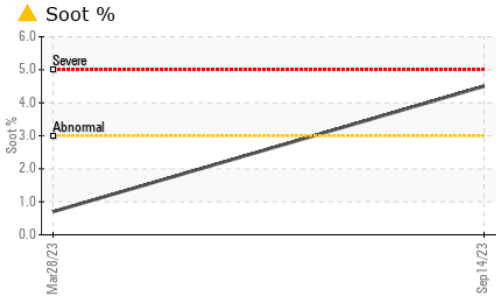
method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	▲ 4.5	0.7	---
Nitration	Abs/cm ASTM D7624* >20	22.3	7.3	---
Sulfation	Abs/.1mm ASTM D7415* >30	36.8	23.3	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414* >25	16.0	11.1	---



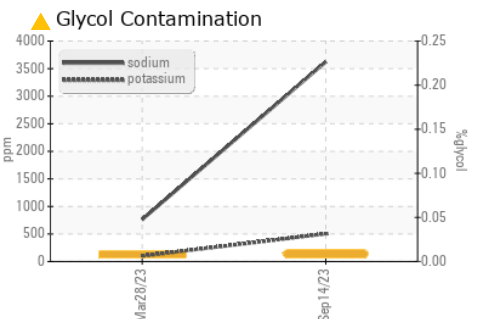
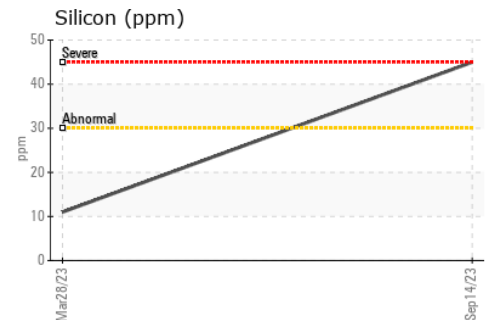
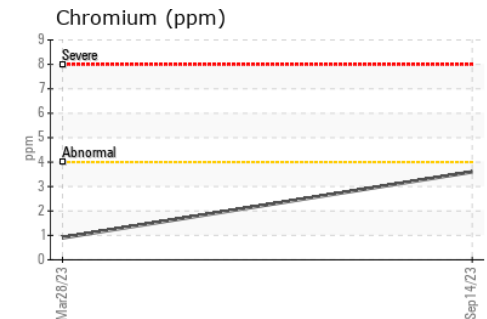
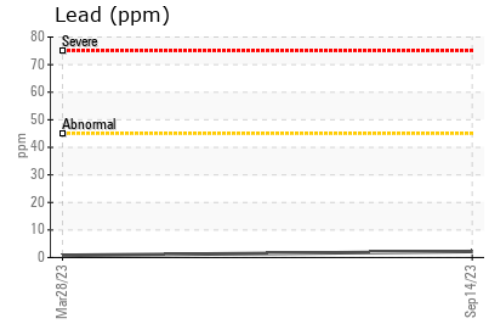
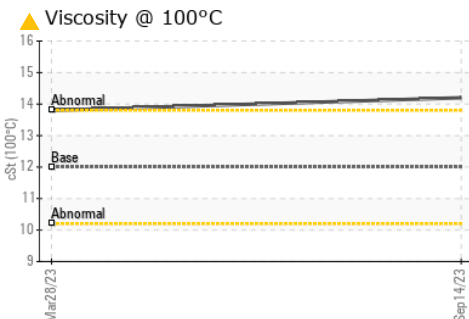
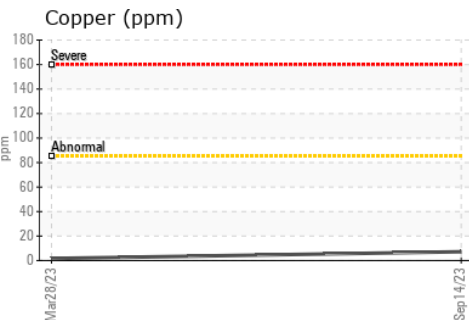
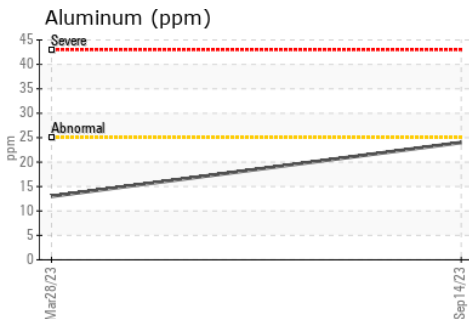
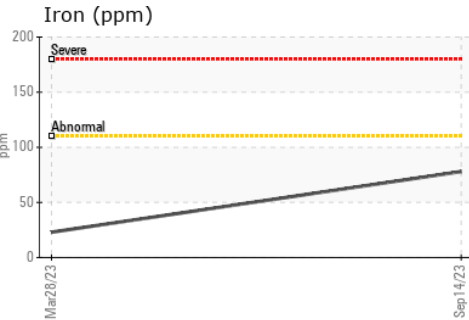
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	▲ 14.2	13.8	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 731STOK - Stoke Hauling
Sample No. : GFL0089048 **Received** : 13 Oct 2023 286 Chemin Cote
Lab Number : 02588839 **Diagnosed** : 16 Oct 2023 Stoke, QC
Unique Number : 5657905 **Diagnostician** : Kevin Marson CA J0B 3G0
Test Package : MOB 1 (Additional Tests: Glycol) Contact: Robert Sayers
rsayers@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.