



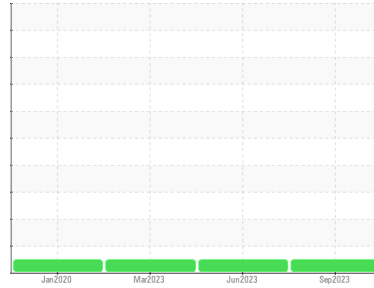
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
401163
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)



DIAGNOSIS

Recommendation

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

Wear

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

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Il n'y a aucun indice de contamination dans l'huile.

Fluid Condition

L'état de l'huile est acceptable pour la durée de service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0088904	GFL0084472	GFL0073427
Sample Date	Client Info		19 Sep 2023	21 Jun 2023	20 Mar 2023
Machine Age	kms	Client Info	296610	9019	8404
Oil Age	kms	Client Info	0	600	600
Oil Changed	Client Info		Changed	Changed	N/A
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	<1.0	<1.0
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >120	18	19	23
Chromium	ppm	ASTM D5185(m) >20	0	<1	0
Nickel	ppm	ASTM D5185(m) >5	0	<1	<1
Titanium	ppm	ASTM D5185(m) >2	0	0	<1
Silver	ppm	ASTM D5185(m) >2	<1	<1	<1
Aluminum	ppm	ASTM D5185(m) >20	6	4	6
Lead	ppm	ASTM D5185(m) >40	<1	<1	1
Copper	ppm	ASTM D5185(m) >330	5	8	25
Tin	ppm	ASTM D5185(m) >15	0	<1	<1
Antimony	ppm	ASTM D5185(m)	0	0	<1
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	4	11
Barium	ppm	ASTM D5185(m) 0	<1	0	0
Molybdenum	ppm	ASTM D5185(m) 50	58	59	53
Manganese	ppm	ASTM D5185(m) 0	0	<1	<1
Magnesium	ppm	ASTM D5185(m) 950	945	963	867
Calcium	ppm	ASTM D5185(m) 1050	1110	1068	1177
Phosphorus	ppm	ASTM D5185(m) 995	1007	1046	1042
Zinc	ppm	ASTM D5185(m) 1180	1187	1185	1174
Sulfur	ppm	ASTM D5185(m) 2600	2475	2437	2603
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	3	4	3
Sodium	ppm	ASTM D5185(m)	4	3	4
Potassium	ppm	ASTM D5185(m) >20	13	6	11

INFRA-RED

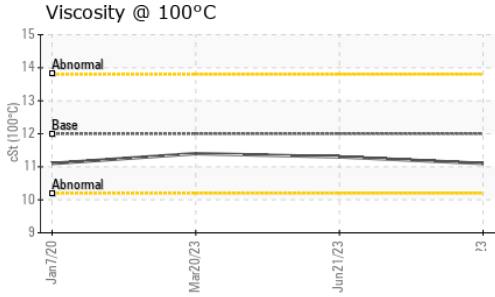
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >4	0.2	0.2	0
Nitration	Abs/cm	ASTM D7624* >20	7.1	7.9	7.3
Sulfation	Abs/.1mm	ASTM D7415* >30	19.7	19.7	22.1

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	15.2	15.7	15.5



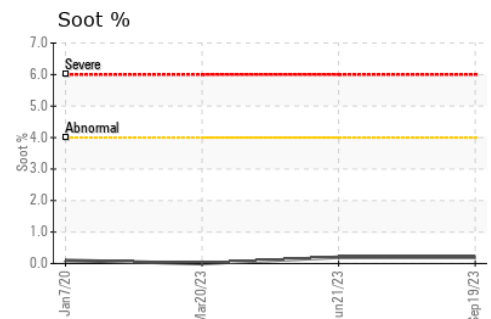
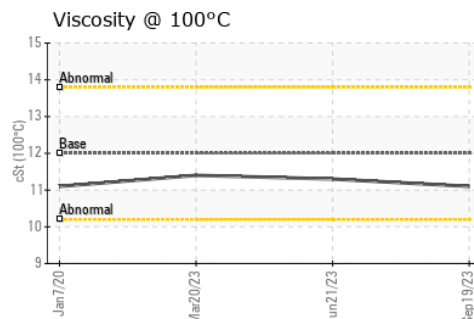
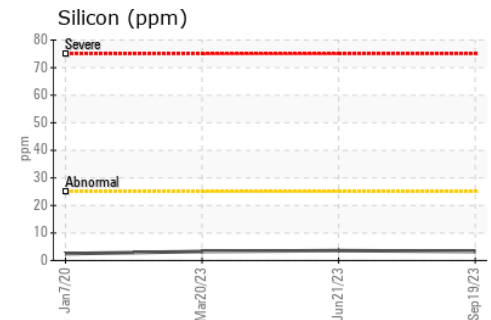
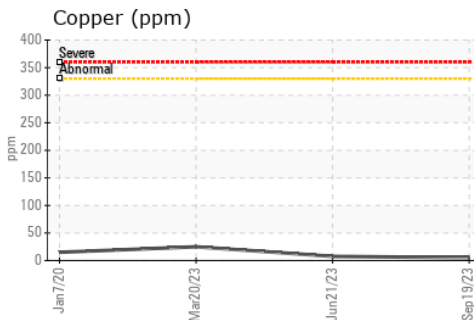
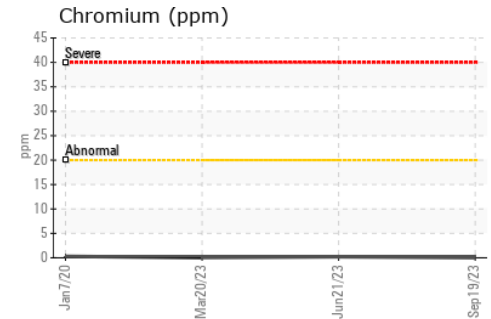
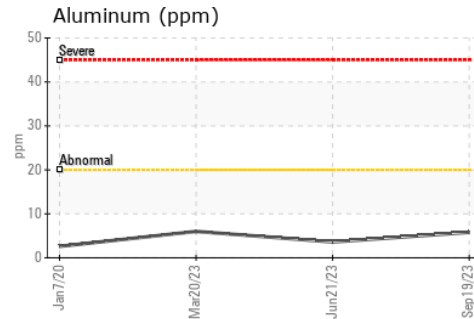
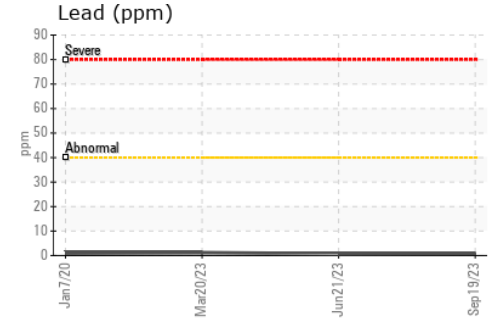
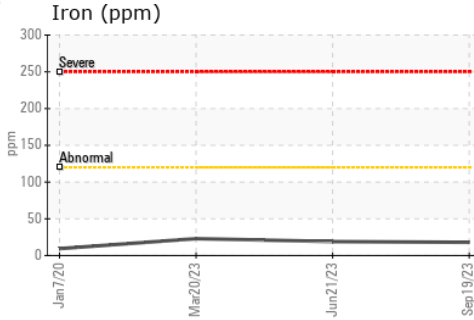
OIL ANALYSIS REPORT



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)	12.00	11.1	11.3

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 780 - GMA - ICI - Solid Waste
Sample No. : GFL0088904 **Received** : 26 Sep 2023 4365 boul. St-Elzear Ouest, Laval, QC
Lab Number : 02585176 **Diagnosed** : 26 Sep 2023 CA H7P 4J3
Unique Number : 5646241 **Diagnostician** : Wes Davis
Test Package : MOB 1

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.

Contact: Pieces Laval
 pieces.laval@gflenv.com
 T: (450)687-3838
 F: