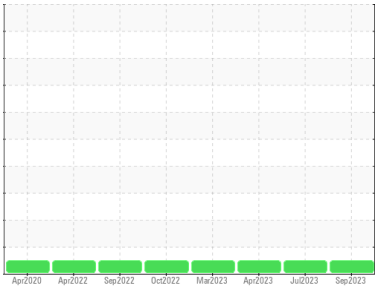
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
829004
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

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. There is no indication of any contamination in the oil.

Fluid Condition
The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0093932**	GFL0062926	GFL0062917
Sample Date		Client Info		**24 Sep 2023**	18 Jul 2023	04 Apr 2023
Machine Age	hrs	Client Info		**8792**	8396	7849
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**NORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	**<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)	>80	**14**	17	6
Chromium	ppm	ASTM D5185(m)	>5	**<1**	<1	0
Nickel	ppm	ASTM D5185(m)	>2	**0**	0	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	<1
Silver	ppm	ASTM D5185(m)	>3	**<1**	0	0
Aluminum	ppm	ASTM D5185(m)	>30	**4**	3	2
Lead	ppm	ASTM D5185(m)	>30	**<1**	0	0
Copper	ppm	ASTM D5185(m)	>150	**<1**	1	<1
Tin	ppm	ASTM D5185(m)	>5	**0**	0	<1
Antimony	ppm	ASTM D5185(m)		**0**	<1	<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

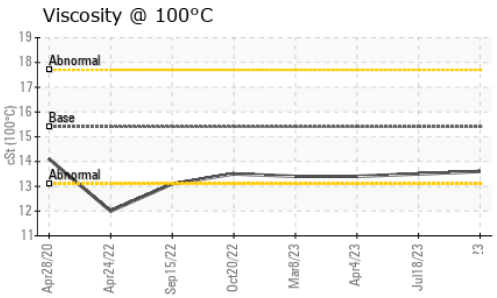
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	**6**	8	13
Barium	ppm	ASTM D5185(m)	0	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	60	**58**	59	59
Manganese	ppm	ASTM D5185(m)	0	**0**	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	**909**	928	911
Calcium	ppm	ASTM D5185(m)	1070	**1033**	1037	1069
Phosphorus	ppm	ASTM D5185(m)	1150	**941**	992	1040
Zinc	ppm	ASTM D5185(m)	1270	**1140**	1143	1086
Sulfur	ppm	ASTM D5185(m)	2060	**2405**	2444	2656
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	**4**	5	4
Sodium	ppm	ASTM D5185(m)		**7**	7	4
Potassium	ppm	ASTM D5185(m)	>20	**8**	3	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0.2**	0.3	0
Nitration	Abs/cm	ASTM D7624*	>20	**8.9**	9.7	7.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	**19.7**	21.0	20.9

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**16.3**	17.4	14.2

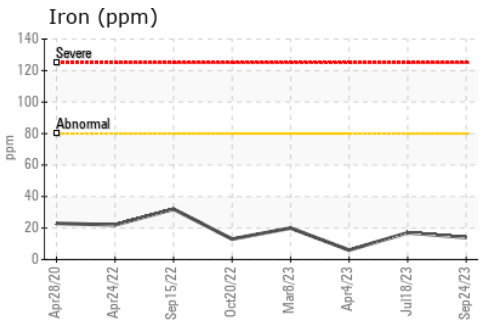
OIL ANALYSIS REPORT

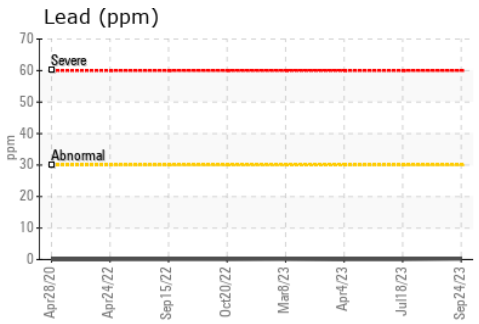


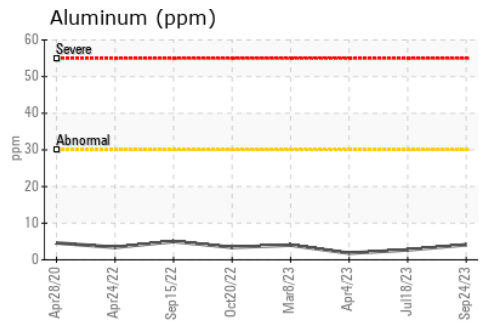
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

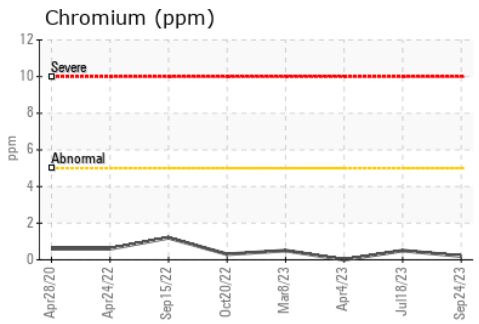
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	**13.6**	13.5	13.4

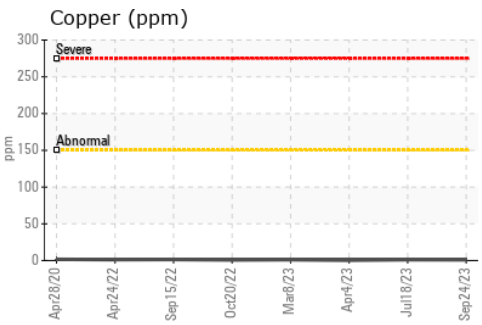
GRAPHS

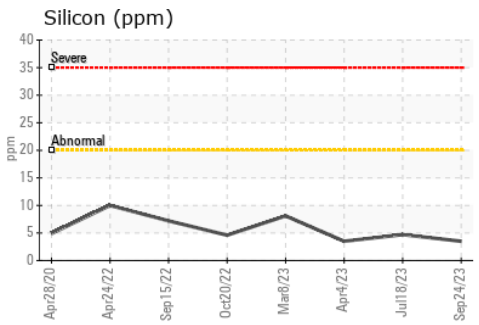


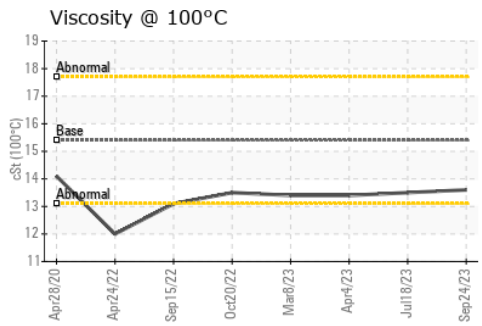


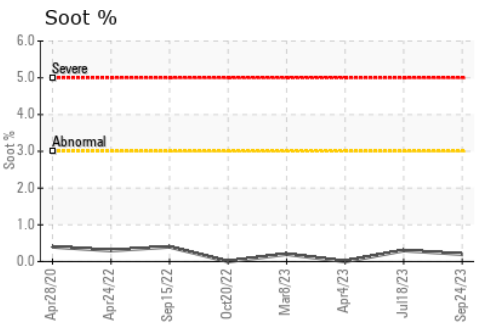












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 777 - Belleville-Municipal waste**
Sample No. : GFL0093932 **Received** : 25 Sep 2023
Lab Number : 02584848 **Diagnosed** : 25 Sep 2023
Unique Number : 5645913 **Diagnostician** : Wes Davis
Test Package : MOB 1

197 Putman Industrial Road
Belleville, ON
CA K8N 4Z6
Contact: Andrea Michael
amichael@gflenv.com
T: (613)962-7144
F: (613)962-1994

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.