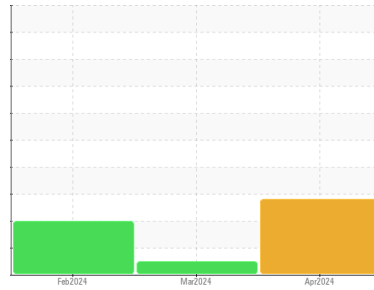




OIL ANALYSIS REPORT

Machine Id
814055
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

Sample Rating Trend



DIAGNOSIS

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			GFL0099258	GFL0099264	GFL0078299
Sample Date	Client Info			02 Apr 2024	07 Mar 2024	12 Feb 2024
Machine Age	hrs	Client Info		612	466	308
Oil Age	hrs	Client Info		0	0	0
Oil Changed	Client Info			N/A	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	ABNORMAL

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 D5185m	>120	45	9	33
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>5	▲ 11	2	7
Titanium	ppm	ASTM D5185m	>2	0	<1	1
Silver	ppm	ASTM D5185m	>2	0	0	1
Aluminum	ppm	ASTM D5185m	>20	5	3	5
Lead	ppm	ASTM D5185m	>40	0	<1	1
Copper	ppm	ASTM D5185m	>330	123	17	24
Tin	ppm	ASTM D5185m	>15	3	2	3
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	146	60	338
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	115	73	124
Manganese	ppm	ASTM D5185m	0	7	2	7
Magnesium	ppm	ASTM D5185m	1010	720	873	661
Calcium	ppm	ASTM D5185m	1070	1545	1165	1415
Phosphorus	ppm	ASTM D5185m	1150	747	858	726
Zinc	ppm	ASTM D5185m	1270	891	1135	812
Sulfur	ppm	ASTM D5185m	2060	2817	3449	2817

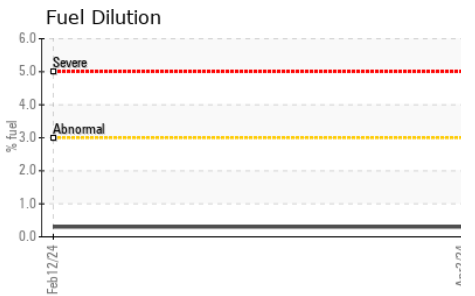
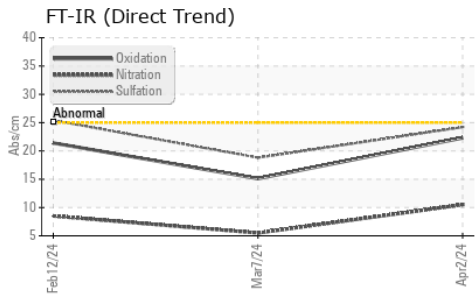
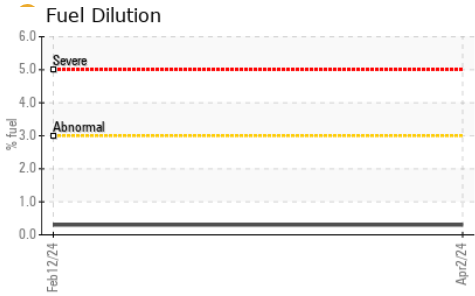
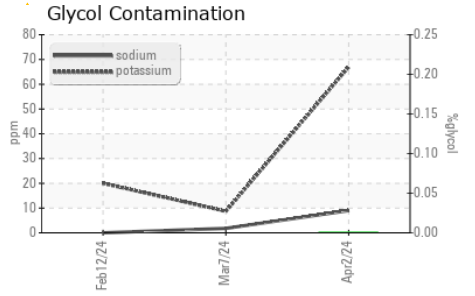
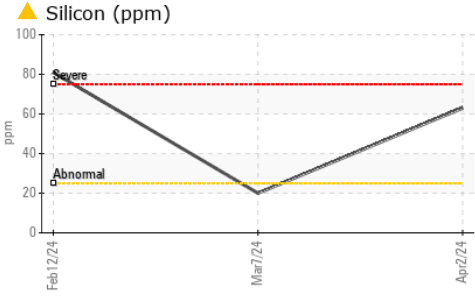
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	▲ 63	20	▲ 81
Sodium	ppm	ASTM D5185m		9	2	0
Potassium	ppm	ASTM D5185m	>20	67	9	20
Fuel	%	ASTM D3524	>3.0	0.3	<1.0	0.3
Glycol	%	*ASTM D2982		0.0	NEG	NEG

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.6	0.1	0.3
Nitration	Abs/cm	*ASTM D7624	>20	10.5	5.5	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.2	18.8	25.4

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.3	15.1	21.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.1	8.6	8.4



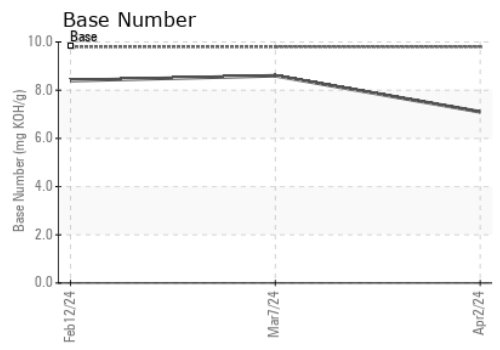
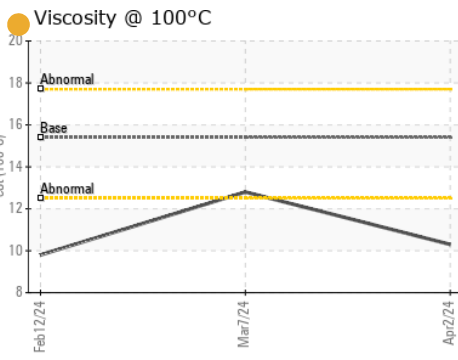
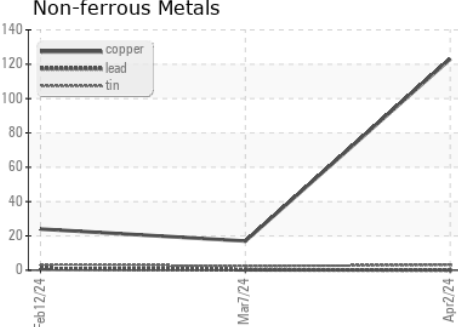
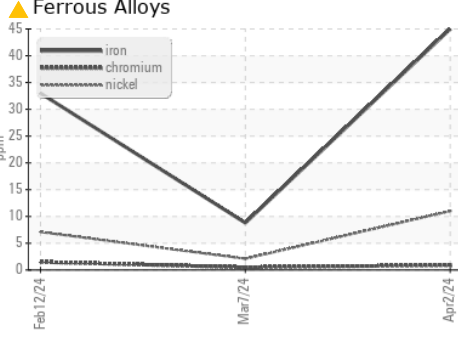
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
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 D445	15.4	10.3	12.8

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0099258 **Received** : 08 Apr 2024
Lab Number : 06142000 **Tested** : 11 Apr 2024
Unique Number : 10966808 **Diagnosed** : 11 Apr 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: FuelDilution, Glycol, PercentFuel)

GFL Environmental - 846 - Mayfield Hauling
 3426 State Route 45
 Mayfield, KY
 US 42066
 Contact: Jack Lindsey
 jack.lindsey@gflenv.com
 T: (270)970-3690
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)