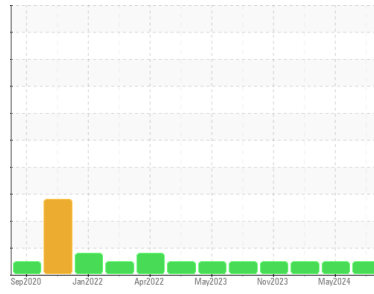




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
822006-191
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP E6 10W40 (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0113659	GFL0113653	GFL0103909
Sample Date	Client Info		21 May 2024	03 May 2024	02 Feb 2024
Machine Age	hrs	Client Info	11611	10805	10805
Oil Age	hrs	Client Info	298	10805	10805
Oil Changed	Client Info		Changed	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
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >80	39	31	15
Chromium	ppm	ASTM D5185m >5	2	<1	<1
Nickel	ppm	ASTM D5185m >2	1	0	2
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m >3	<1	0	<1
Aluminum	ppm	ASTM D5185m >30	7	6	5
Lead	ppm	ASTM D5185m >30	2	2	1
Copper	ppm	ASTM D5185m >150	2	1	2
Tin	ppm	ASTM D5185m >5	1	1	<1
Vanadium	ppm	ASTM D5185m	<1	0	<1
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 1	3	5	4
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 49	67	60	58
Manganese	ppm	ASTM D5185m 0	<1	<1	<1
Magnesium	ppm	ASTM D5185m 930	1025	950	886
Calcium	ppm	ASTM D5185m 1350	1229	1123	1027
Phosphorus	ppm	ASTM D5185m 810	1073	1077	1030
Zinc	ppm	ASTM D5185m 930	1335	1290	1238
Sulfur	ppm	ASTM D5185m 2500	3286	3566	3105

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	7	6	3
Sodium	ppm	ASTM D5185m	6	5	5
Potassium	ppm	ASTM D5185m >20	6	5	8

INFRA-RED

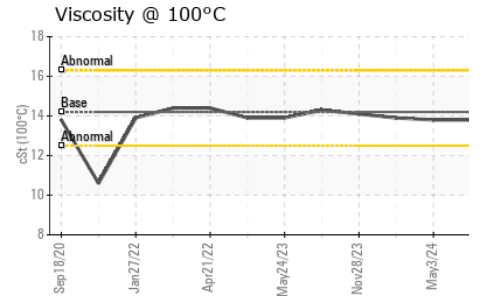
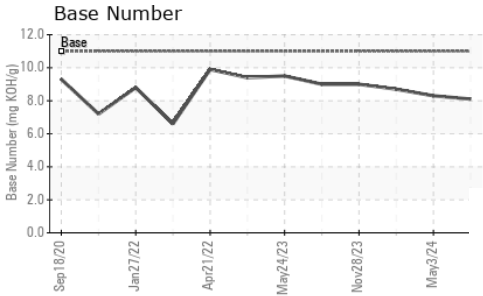
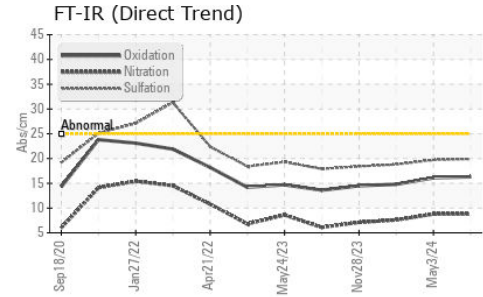
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.5	0.5	0.4
Nitration	Abs/cm	*ASTM D7624 >20	8.8	8.8	7.6
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.9	19.7	18.8

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	16.3	16.1	14.8
Base Number (BN)	mg KOH/g	ASTM D2896 11.0	8.1	8.3	8.7



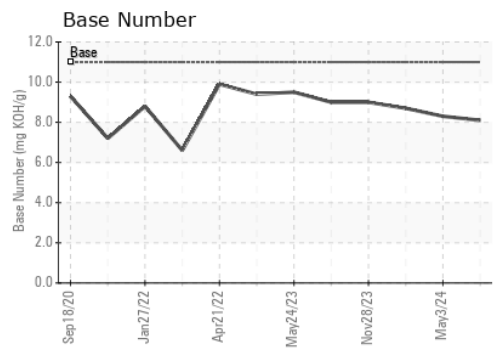
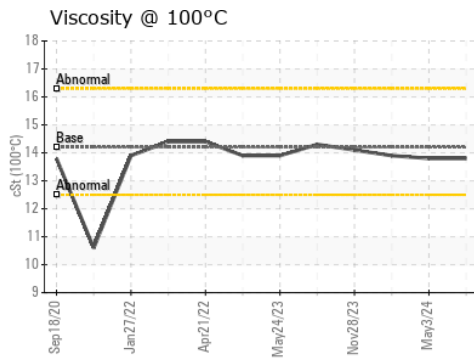
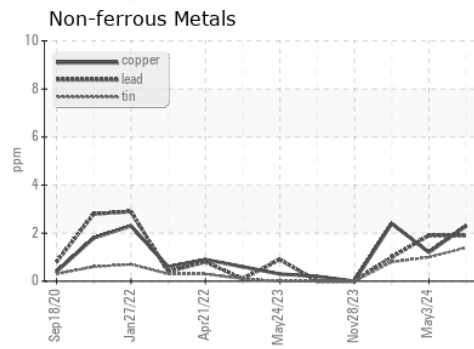
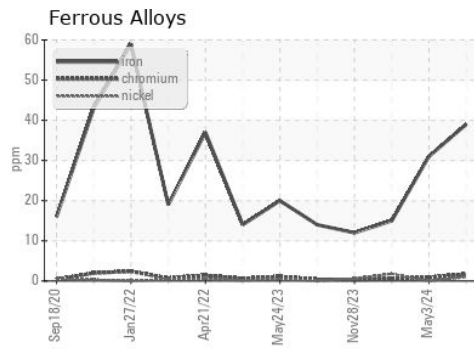
OIL ANALYSIS REPORT



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	14.2	13.8	13.9

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0113659 **Received** : 23 May 2024
Lab Number : 06189940 **Tested** : 25 May 2024
Unique Number : 11046692 **Diagnosed** : 29 May 2024 - Sean Felton
Test Package : FLEET

GFL Environmental - 654S - Midlothian
 12230 Deergrove Road
 Midlothian, VA
 US 23112
 Contact: Corbin Umphlet
 cumphlet@gflenv.com

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)