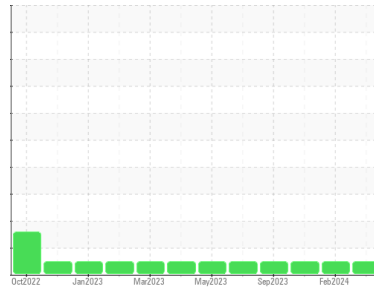




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

733004

Component

Natural Gas Engine

Fluid

PETRO CANADA DURON SHP 15W40 (28 QTS)

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	GFL0106741	GFL0092121	GFL0092043
Sample Date	Client Info	18 Apr 2024	05 Feb 2024	28 Nov 2023
Machine Age	hrs	4899	4235	111181
Oil Age	hrs	111181	0	600
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >50	8	6	6
Chromium	ppm ASTM D5185m >4	2	<1	<1
Nickel	ppm ASTM D5185m >2	1	0	0
Titanium	ppm ASTM D5185m	<1	0	0
Silver	ppm ASTM D5185m >3	<1	0	0
Aluminum	ppm ASTM D5185m >9	2	1	<1
Lead	ppm ASTM D5185m >30	2	0	0
Copper	ppm ASTM D5185m >35	2	0	<1
Tin	ppm ASTM D5185m >4	2	<1	0
Vanadium	ppm ASTM D5185m	<1	0	0
Cadmium	ppm ASTM D5185m	<1	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	10	18	7
Barium	ppm ASTM D5185m 0	<1	0	0
Molybdenum	ppm ASTM D5185m 60	58	53	39
Manganese	ppm ASTM D5185m 0	1	<1	<1
Magnesium	ppm ASTM D5185m 1010	535	559	434
Calcium	ppm ASTM D5185m 1070	1657	1561	1364
Phosphorus	ppm ASTM D5185m 1150	643	743	569
Zinc	ppm ASTM D5185m 1270	930	977	770
Sulfur	ppm ASTM D5185m 2060	2451	2375	1786

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >+100	5	3	3
Sodium	ppm ASTM D5185m	6	6	5
Potassium	ppm ASTM D5185m >20	2	0	0

INFRA-RED

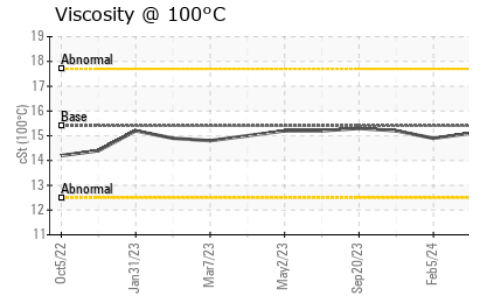
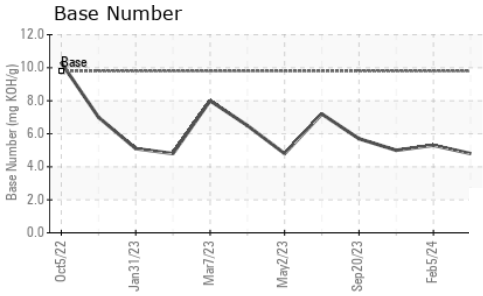
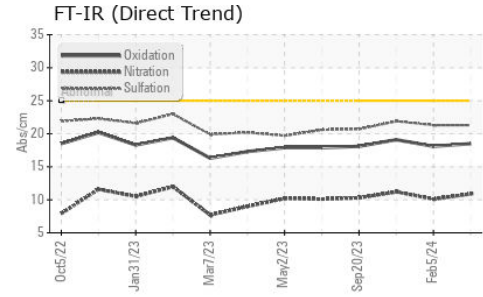
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	0	0	0
Nitration	Abs/cm *ASTM D7624 >20	10.9	10.1	11.2
Sulfation	Abs/.1mm *ASTM D7415 >30	21.3	21.3	21.9

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	18.5	18.1	19.1
Base Number (BN)	mg KOH/g ASTM D2896 9.8	4.8	5.3	5.0



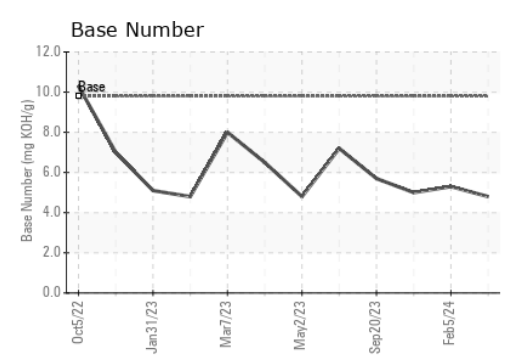
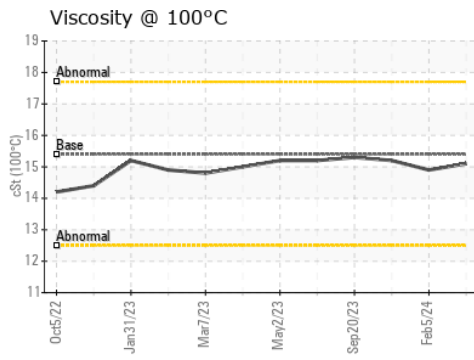
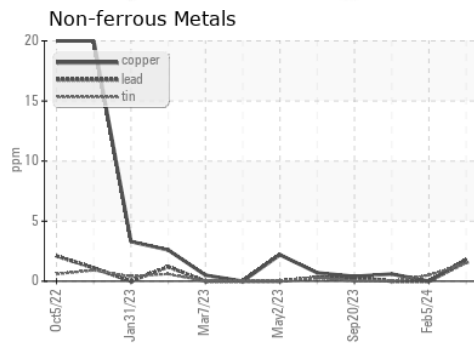
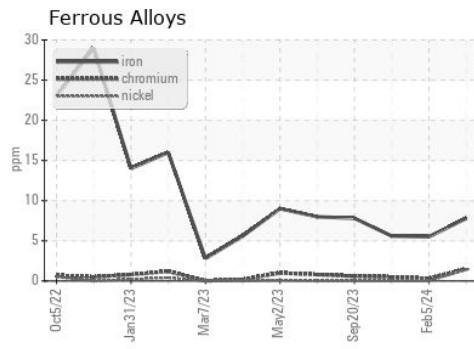
OIL ANALYSIS REPORT



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	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	15.1	14.9

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0106741 **Received** : 25 Apr 2024
Lab Number : 06160194 **Tested** : 26 Apr 2024
Unique Number : 10995617 **Diagnosed** : 26 Apr 2024 - Don Baldrige
Test Package : FLEET

GFL Environmental - 856 - Houston South
 8515 Highway 6 South
 Houston, TX
 US 77083
 Contact: Apolinar Zacarias
 pzacariascano@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)