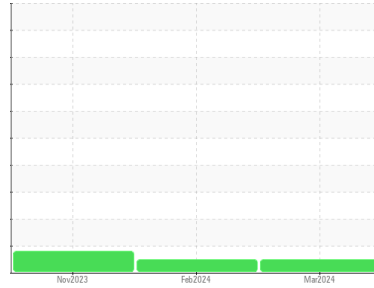




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
933035
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (5 GAL)

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		GFL0114509	GFL0103422	GFL0092490
Sample Date	Client Info		19 Mar 2024	22 Feb 2024	09 Nov 2023
Machine Age	hrs	Client Info	2412	2194	1315
Oil Age	hrs	Client Info	1178	879	1315
Oil Changed	Client Info		Changed	Not Changd	Changed
Sample Status			NORMAL	NORMAL	ABNORMAL

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	46	27	▲ 70
Chromium	ppm	ASTM D5185m >5	3	1	2
Nickel	ppm	ASTM D5185m >4	3	<1	2
Titanium	ppm	ASTM D5185m >5	<1	<1	0
Silver	ppm	ASTM D5185m >3	0	0	<1
Aluminum	ppm	ASTM D5185m >25	8	5	10
Lead	ppm	ASTM D5185m >40	3	1	<1
Copper	ppm	ASTM D5185m >150	10	4	15
Tin	ppm	ASTM D5185m >4	2	<1	2
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	4	<1	5
Barium	ppm	ASTM D5185m 0	1	<1	<1
Molybdenum	ppm	ASTM D5185m 60	89	67	55
Manganese	ppm	ASTM D5185m 0	3	2	11
Magnesium	ppm	ASTM D5185m 1010	1039	839	825
Calcium	ppm	ASTM D5185m 1070	1326	1061	951
Phosphorus	ppm	ASTM D5185m 1150	1090	892	818
Zinc	ppm	ASTM D5185m 1270	1364	1115	1061
Sulfur	ppm	ASTM D5185m 2060	2481	2301	2196

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	9	6	19
Sodium	ppm	ASTM D5185m	7	8	4
Potassium	ppm	ASTM D5185m >20	12	6	16

INFRA-RED

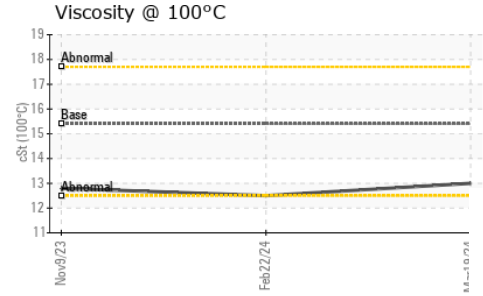
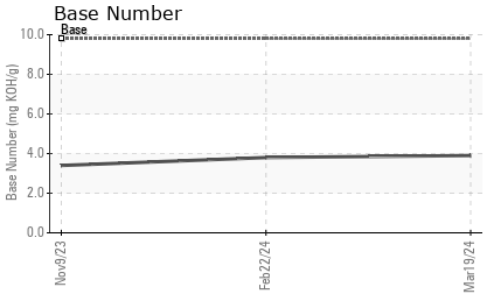
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0	0.1	0
Nitration	Abs/cm	*ASTM D7624 >20	9.9	9.7	10.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	24.1	21.2	23.1

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	16.9	15.2	20.4
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	3.9	3.8	3.4



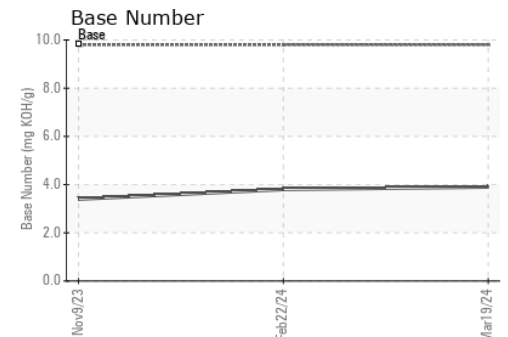
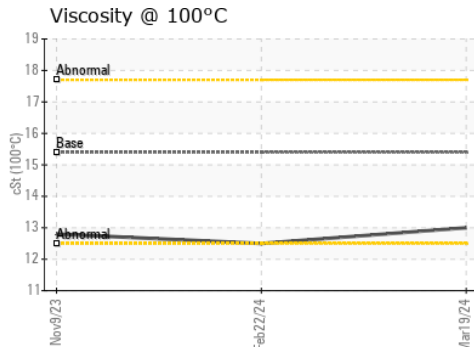
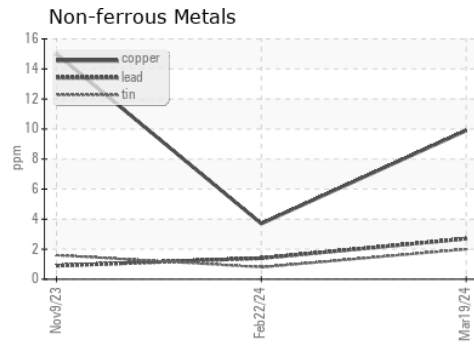
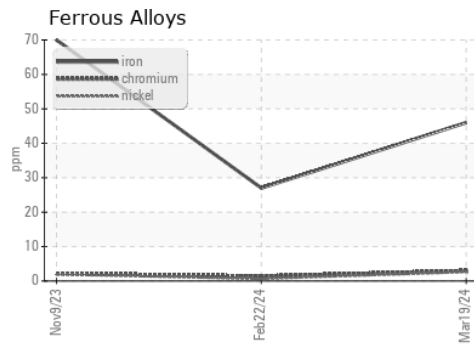
OIL ANALYSIS REPORT



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	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.0	12.5

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0114509 **Received** : 22 Mar 2024
Lab Number : **06126908** **Tested** : 26 Mar 2024
Unique Number : 10941059 **Diagnosed** : 26 Mar 2024 - Wes Davis
Test Package : FLEET

GFL Environmental - 095 - Atlanta West
 2699 Cochran Industrial Blvd
 Douglasville, GA
 US 30127-1332
 Contact: Darrell Welch
 darrell.welch@gflenv.com
 T: (800)207-6618
 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)