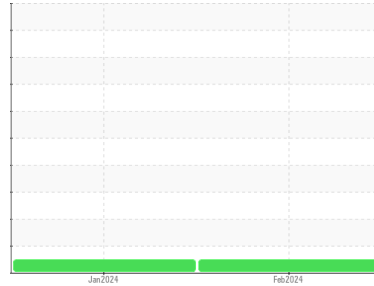




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
427244 KENWORTH T880

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Sampled only)

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			GFL0110984	GFL0061422	---
Sample Date	Client Info			26 Feb 2024	22 Jan 2024	---
Machine Age	hrs	Client Info		17255	16994	---
Oil Age	hrs	Client Info		261	600	---
Oil Changed	Client Info			Not Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<1.0	<1.0	---
Water	WC Method	>0.2		NEG	NEG	---
Glycol	WC Method			NEG	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	12	19	---
Chromium	ppm	ASTM D5185m	>20	<1	1	---
Nickel	ppm	ASTM D5185m	>4	0	<1	---
Titanium	ppm	ASTM D5185m		86	89	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	1	3	---
Lead	ppm	ASTM D5185m	>40	<1	3	---
Copper	ppm	ASTM D5185m	>330	0	<1	---
Tin	ppm	ASTM D5185m	>15	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	1	---
Cadmium	ppm	ASTM D5185m		0	<1	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	109	90	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	60	2	4	---
Manganese	ppm	ASTM D5185m	0	<1	<1	---
Magnesium	ppm	ASTM D5185m	1010	430	415	---
Calcium	ppm	ASTM D5185m	1070	1729	1696	---
Phosphorus	ppm	ASTM D5185m	1150	998	934	---
Zinc	ppm	ASTM D5185m	1270	1215	1203	---
Sulfur	ppm	ASTM D5185m	2060	3604	3802	---

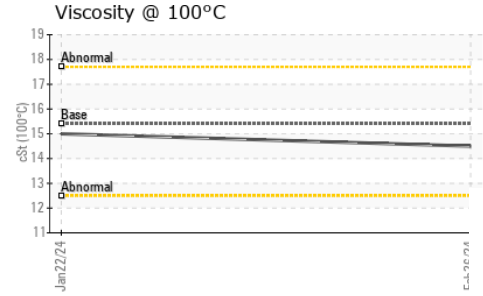
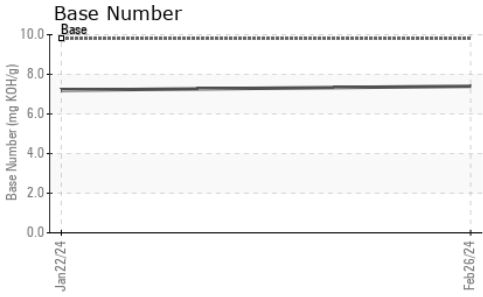
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	6	---
Sodium	ppm	ASTM D5185m		4	7	---
Potassium	ppm	ASTM D5185m	>20	2	7	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.7	---
Nitration	Abs/cm	*ASTM D7624	>20	8.6	9.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	22.9	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	17.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.4	7.2	---



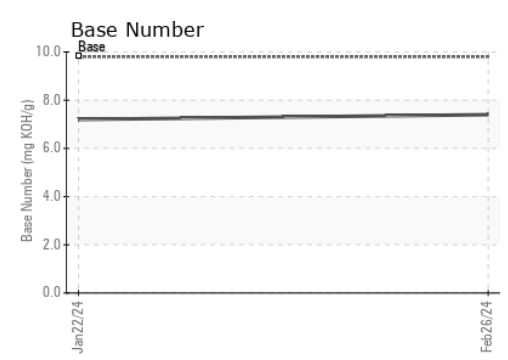
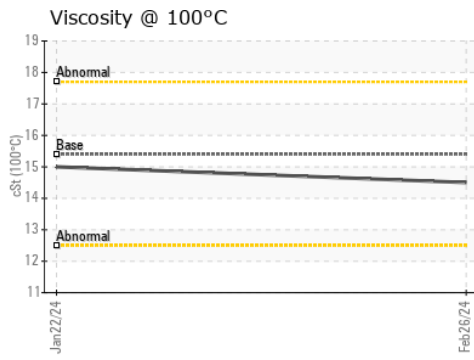
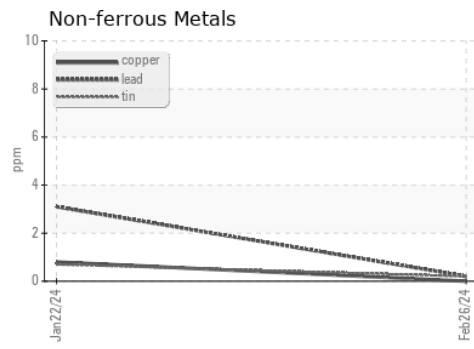
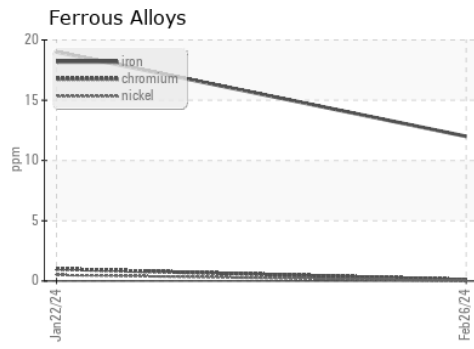
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.5	15.0

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0110984 **Received** : 28 Feb 2024
Lab Number : **06103604** **Tested** : 29 Feb 2024
Unique Number : 10901834 **Diagnosed** : 01 Mar 2024 - Don Baldrige
Test Package : FLEET

GFL Environmental - 642B- MCM Disposal
 10450 Pease Ave
 Byron Center, MI
 US 49315
 Contact: Joshua VanVolkinburg

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)

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F: