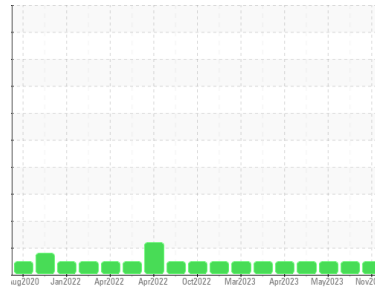




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
829031-1082

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		GFL0097375	GFL0089511	GFL0067906
Sample Date	Client Info		09 Nov 2023	01 Sep 2023	19 May 2023
Machine Age	hrs	Client Info	98624	12177	98624
Oil Age	hrs	Client Info	98624	651	98624
Oil Changed	Client Info		N/A	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
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >110	9	8	4
Chromium	ppm	ASTM D5185m >4	<1	<1	0
Nickel	ppm	ASTM D5185m >2	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m >2	<1	<1	0
Aluminum	ppm	ASTM D5185m >25	1	<1	0
Lead	ppm	ASTM D5185m >45	7	3	<1
Copper	ppm	ASTM D5185m >85	<1	<1	<1
Tin	ppm	ASTM D5185m >4	<1	<1	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 1	6	6	7
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 49	61	65	62
Manganese	ppm	ASTM D5185m 0	0	<1	<1
Magnesium	ppm	ASTM D5185m 930	984	1008	1000
Calcium	ppm	ASTM D5185m 1350	1071	1123	1153
Phosphorus	ppm	ASTM D5185m 810	1050	1044	1052
Zinc	ppm	ASTM D5185m 930	1322	1301	1331
Sulfur	ppm	ASTM D5185m 2500	2784	3457	3674

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	7	6	5
Sodium	ppm	ASTM D5185m	4	6	4
Potassium	ppm	ASTM D5185m >20	1	1	2

INFRA-RED

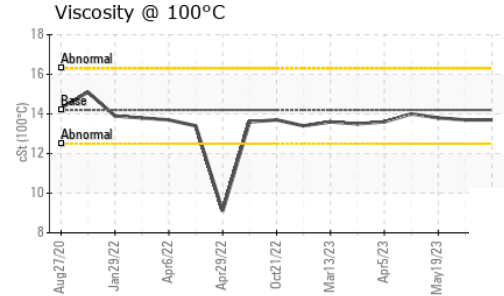
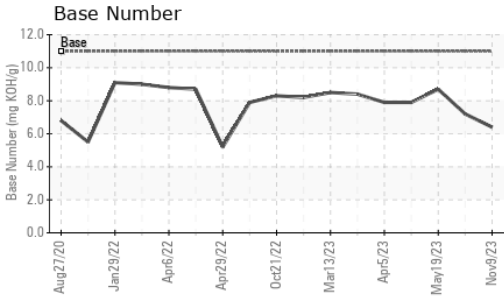
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.4	0.3	0.2
Nitration	Abs/cm	*ASTM D7624 >20	10.2	8.8	6.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.3	20.3	19.0

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	18.9	16.1	14.5
Base Number (BN)	mg KOH/g	ASTM D2896 11.0	6.4	7.2	8.7



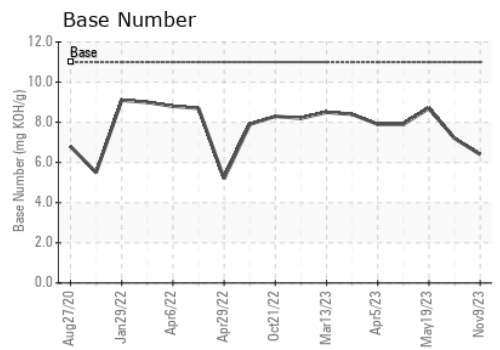
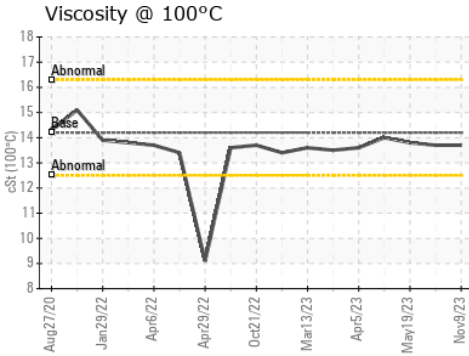
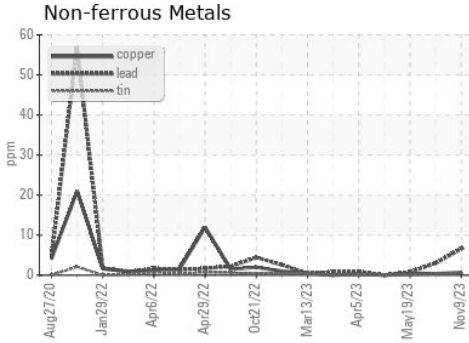
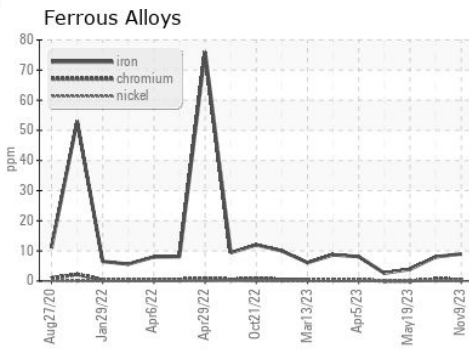
OIL ANALYSIS REPORT



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	13.7	13.7	13.8

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0097375 **Received** : 14 Nov 2023
Lab Number : **06006835** **Diagnosed** : 15 Nov 2023
Unique Number : 10740597 **Diagnostician** : Wes Davis
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)