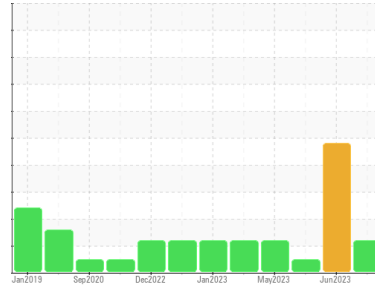




PROBLEM SUMMARY

Sample Rating Trend



GLYCOL



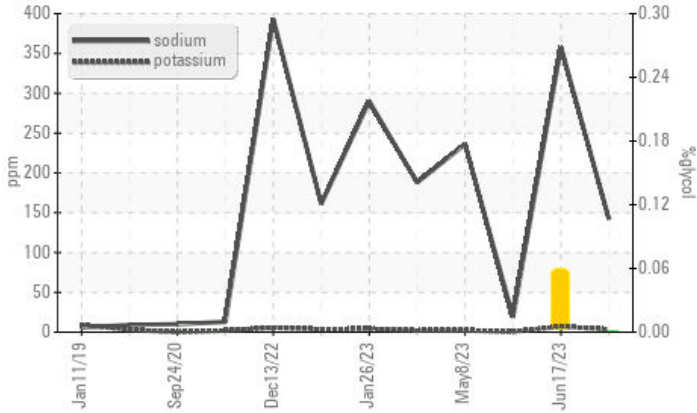
Machine Id
728047-361698

Component
Diesel Engine

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

COMPONENT CONDITION SUMMARY

▲ Glycol Contamination



RECOMMENDATION

No corrective action is recommended at this time.
Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ATTENTION	ABNORMAL	NORMAL
Sodium	ppm	ASTM D5185m	▲ 142	▲ 358	19

Customer Id: GFL824
Sample No.: GFL0076775
Lab Number: 05892061
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

17 Jun 2023 Diag: Wes Davis

GLYCOL



We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Test for glycol is positive. There is a moderate concentration of glycol present in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

view report



03 Jun 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report



08 May 2023 Diag: Don Baldrige

GLYCOL



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is negative. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

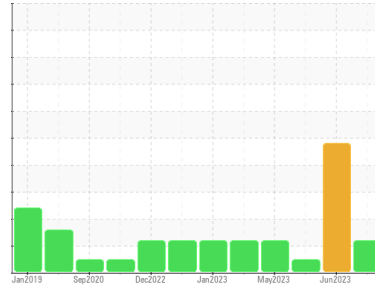
view report





OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Machine Id
728047-361698

Component
Diesel Engine

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. Test for glycol is negative.

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	history 1	history 2	
Sample Number	Client Info	GFL0076775	GFL0065443	GFL0065510	
Sample Date	Client Info	04 Jul 2023	17 Jun 2023	03 Jun 2023	
Machine Age	hrs	Client Info	13115	12991	12876
Oil Age	hrs	Client Info	150	600	600
Oil Changed	Client Info	Not Changed	Changed	Changed	
Sample Status		ATTENTION	ABNORMAL	NORMAL	

CONTAMINATION

method	limit/base	current	history 1	history 2
Fuel	WC Method >5	<1.0	<1.0	<1.0

WEAR METALS

method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m >100	8	23	12
Chromium	ppm ASTM D5185m >20	<1	2	<1
Nickel	ppm ASTM D5185m >4	0	1	0
Titanium	ppm ASTM D5185m	0	<1	0
Silver	ppm ASTM D5185m >3	0	<1	0
Aluminum	ppm ASTM D5185m >20	2	<1	0
Lead	ppm ASTM D5185m >40	0	<1	0
Copper	ppm ASTM D5185m >330	3	5	0
Tin	ppm ASTM D5185m >15	0	<1	0
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	<1	0

ADDITIVES

method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m 0	<1	0	1
Barium	ppm ASTM D5185m 0	0	4	0
Molybdenum	ppm ASTM D5185m 60	72	87	54
Manganese	ppm ASTM D5185m 0	<1	1	<1
Magnesium	ppm ASTM D5185m 1010	968	975	936
Calcium	ppm ASTM D5185m 1070	1054	1104	997
Phosphorus	ppm ASTM D5185m 1150	1066	1047	1000
Zinc	ppm ASTM D5185m 1270	1317	1305	1276
Sulfur	ppm ASTM D5185m 2060	3799	3475	3615

CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m >25	4	6	3
Sodium	ppm ASTM D5185m	▲ 142	▲ 358	19
Potassium	ppm ASTM D5185m >20	3	▲ 7	<1
Glycol	% *ASTM D2982	0.0	▲ 0.06	NEG

INFRA-RED

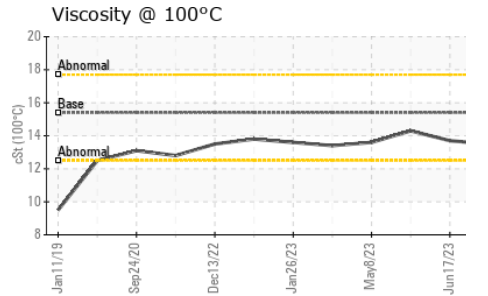
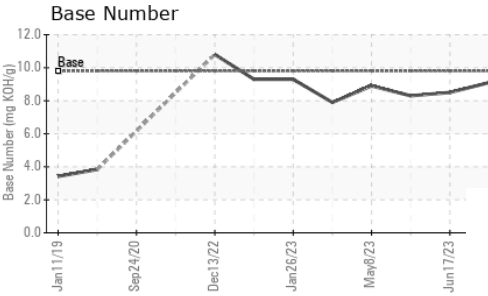
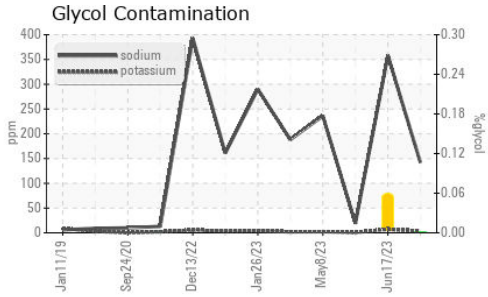
method	limit/base	current	history 1	history 2
Soot %	% *ASTM D7844 >3	0.2	0.5	0.2
Nitration	Abs/cm *ASTM D7624 >20	7.4	11.2	6.6
Sulfation	Abs/.1mm *ASTM D7415 >30	19.3	21.5	19.6

FLUID DEGRADATION

method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm *ASTM D7414 >25	14.7	17.3	16.1
Base Number (BN)	mg KOH/g ASTM D2896 9.8	9.1	8.5	8.3



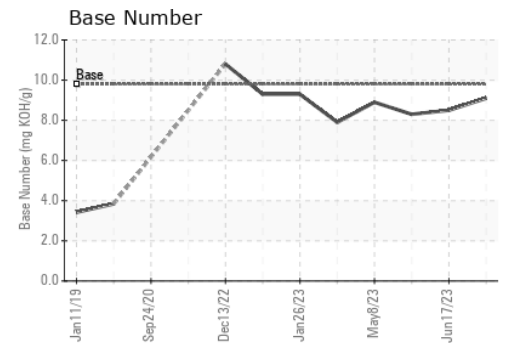
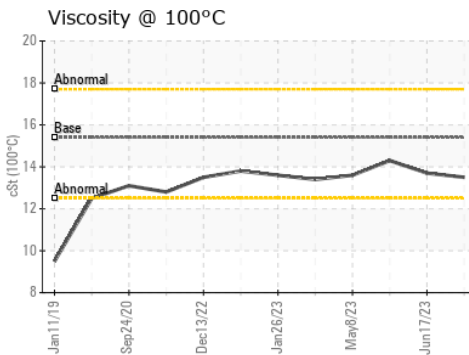
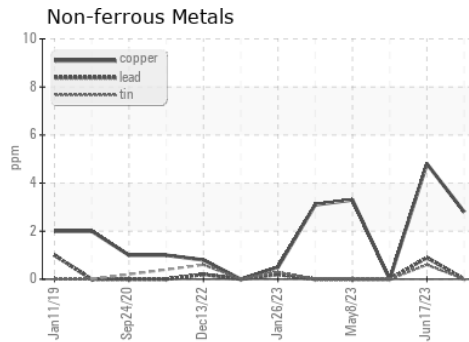
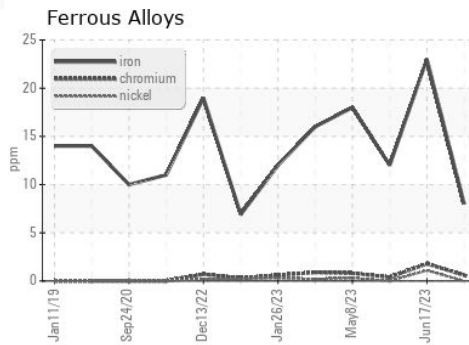
OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history 1	history 2
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	history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.7

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : GFL0076775
 Lab Number : 05892061
 Unique Number : 10547871
 Test Package : FLEET

GFL Environmental - 824 - Rolla Hauling
 17103 County Road 8190
 Newburg, MO
 US 65550
 Contact: Landen Johnson

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)

T: (417)664-0010

F: