



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
AUTOCAR 929076-205273
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0046851	GFL0037277	GFLI-190695
Sample Date		Client Info		08 Dec 2022	15 Dec 2021	03 Feb 2020
Machine Age	hrs	Client Info		17880	15925	4068
Oil Age	hrs	Client Info		1955	0	450
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	29	14	7
Chromium	ppm	ASTM D5185m	>20	1	1	0
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	4
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	4
Lead	ppm	ASTM D5185m	>40	2	4	1
Copper	ppm	ASTM D5185m	>330	17	24	6
Tin	ppm	ASTM D5185m	>15	2	2	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

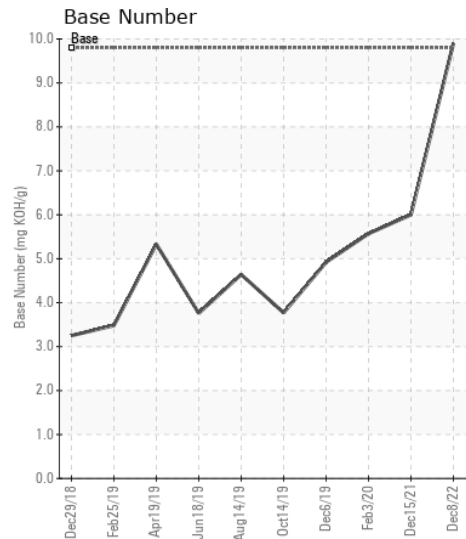
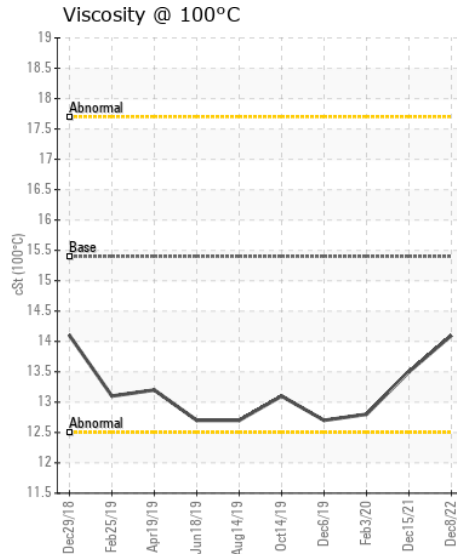
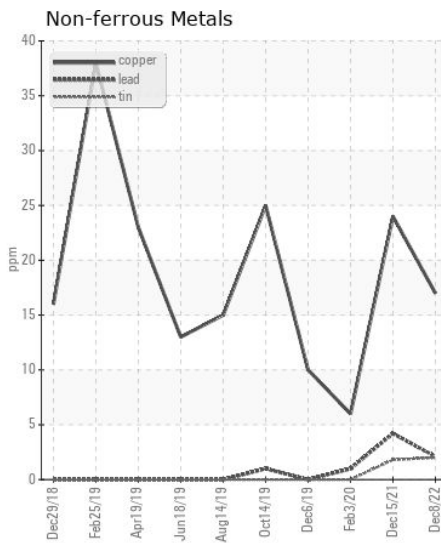
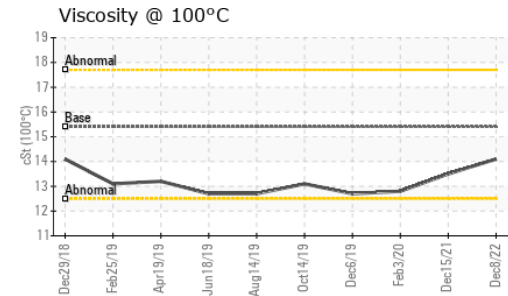
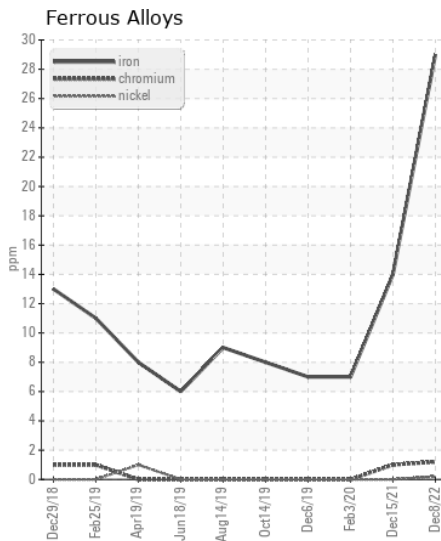
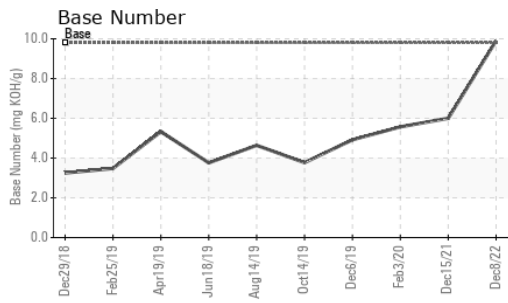
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	6	5
Potassium	ppm	ASTM D5185m	>20	1	0	0
Fuel		WC Method	>5	<1.0	<1.0	0.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.4	0
Nitration	Abs/cm	*ASTM D7624	>20	8.8	10.8	8
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	23.9	---
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	---

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.

Sodium	ppm	ASTM D5185m		4	1	2
Boron	ppm	ASTM D5185m	0	5	8	247
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	64	62	100
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	1022	957	665
Calcium	ppm	ASTM D5185m	1070	1160	1176	1523
Phosphorus	ppm	ASTM D5185m	1150	1086	939	792
Zinc	ppm	ASTM D5185m	1270	1338	1164	903
Sulfur	ppm	ASTM D5185m	2060	3573	2211	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	22.4	13
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.9	6	5.57
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	13.5	12.8



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0046851 **Received** : 20 Dec 2022
Lab Number : 05722372 **Diagnosed** : 21 Dec 2022
Unique Number : 10266953 **Diagnostician** : Wes Davis
Test Package : FLEET

GFL Environmental - 9999 - Moved No Longer Used Units

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)

US
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