



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
10578

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 15W40 (56 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0093738	GFL0093755	GFL0093736
Sample Date		Client Info		19 Feb 2024	29 Dec 2023	01 Sep 2023
Machine Age	hrs	Client Info		14253	13970	13391
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	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	>75	26	34	40
Chromium	ppm	ASTM D5185m	>5	2	2	4
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	3	3	2
Lead	ppm	ASTM D5185m	>25	<1	1	0
Copper	ppm	ASTM D5185m	>100	<1	1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

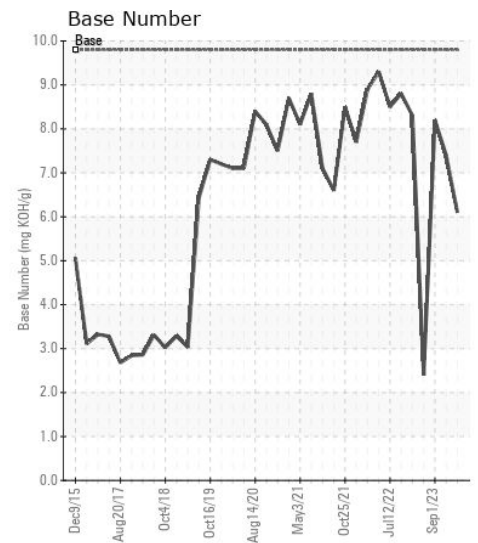
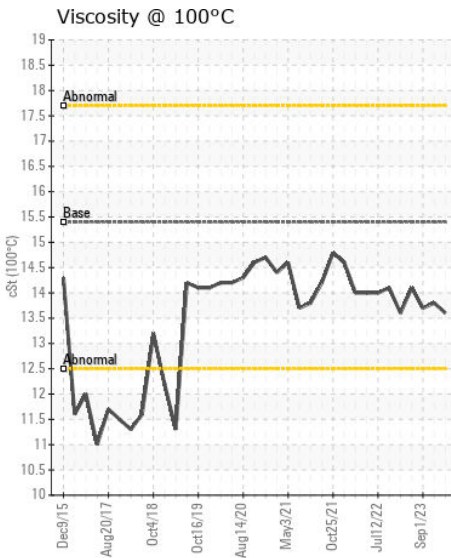
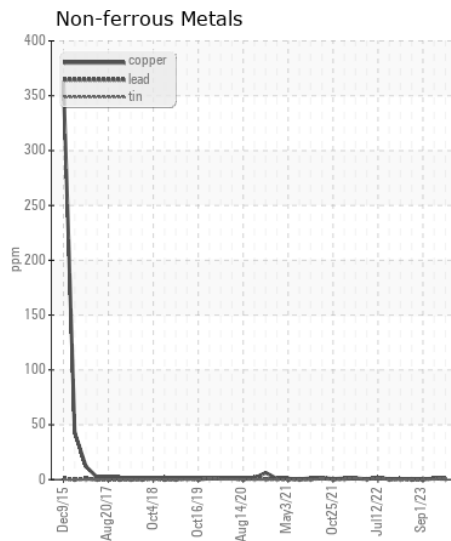
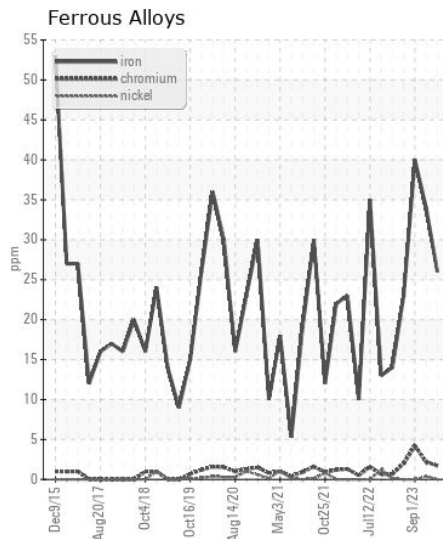
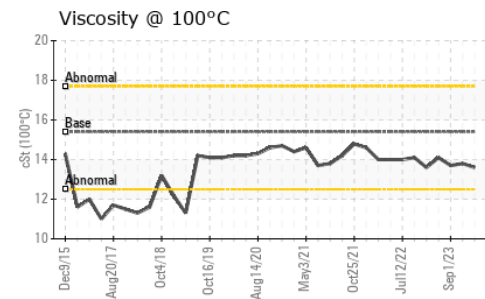
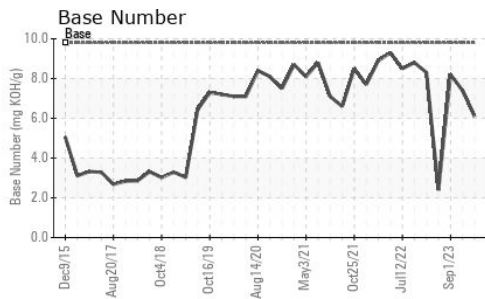
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	11	9	14
Potassium	ppm	ASTM D5185m	>20	0	2	0
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	0.4	0.7	0.5
Nitration	Abs/cm	*ASTM D7624	>20	8.7	9.8	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	21.5	18.4
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	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		7	10	13
Boron	ppm	ASTM D5185m	0	8	4	6
Barium	ppm	ASTM D5185m	0	0	10	0
Molybdenum	ppm	ASTM D5185m	60	59	58	58
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	911	855	879
Calcium	ppm	ASTM D5185m	1070	1051	1009	1086
Phosphorus	ppm	ASTM D5185m	1150	987	1106	1011
Zinc	ppm	ASTM D5185m	1270	1218	1163	1211
Sulfur	ppm	ASTM D5185m	2060	2833	3287	3452
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	17.5	13.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.1	7.4	8.2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.8	13.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0093738
Lab Number : 06097485
Unique Number : 10890338
Test Package : FLEET

Received : 22 Feb 2024
Tested : 23 Feb 2024
Diagnosed : 23 Feb 2024 - Wes Davis

GFL Environmental - 029 - Wytheville
 2390 North 4th Street
 Wytheville, VA
 US 24382

Contact: CHARLES CORVIN
 charles.corvin@gflenv.com; canastasio@wearcheckusa.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)

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