



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(62A0X16) TALLASSEE
Machine Id
925026-152580
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0080694	GFL0092435	GFL0079704
Sample Date		Client Info		08 Apr 2024	03 Apr 2024	30 Oct 2023
Machine Age	hrs	Client Info		19337	19307	461538
Oil Age	hrs	Client Info		19337	19307	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	N/A
Filter Changed		Client Info		N/A	Not Changd	N/A
Sample Status				NORMAL	NORMAL	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>120	26	22	72
Chromium	ppm	ASTM D5185m	>20	<1	0	2
Nickel	ppm	ASTM D5185m	>5	2	1	2
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	32
Lead	ppm	ASTM D5185m	>40	<1	0	5
Copper	ppm	ASTM D5185m	>330	5	4	3
Tin	ppm	ASTM D5185m	>15	<1	0	2
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

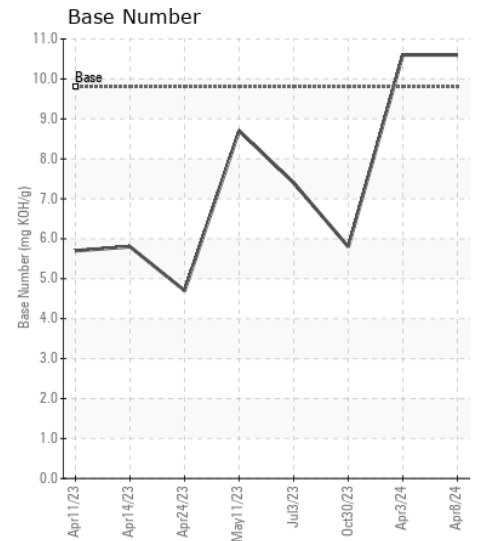
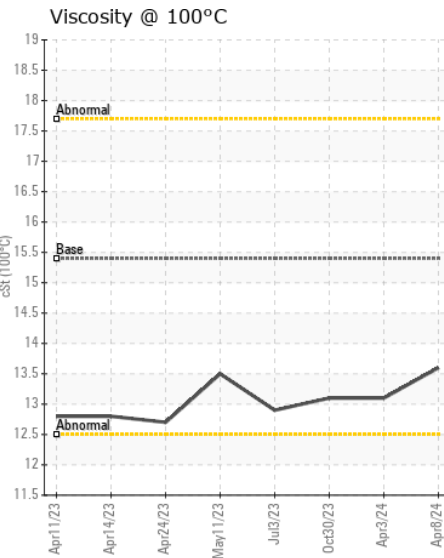
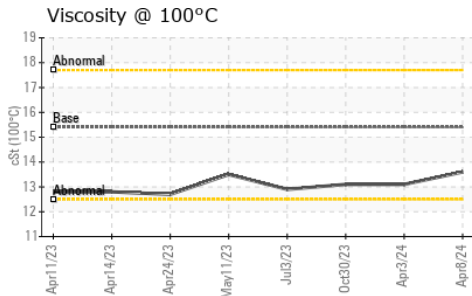
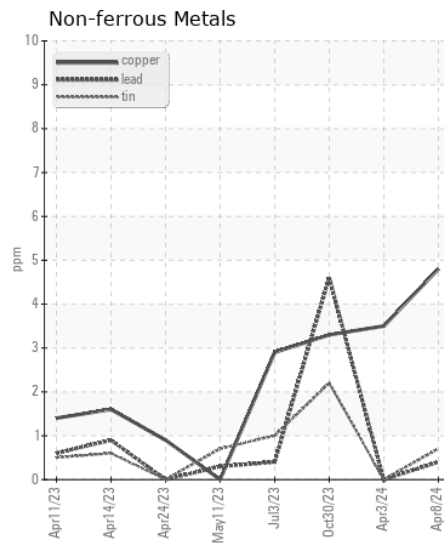
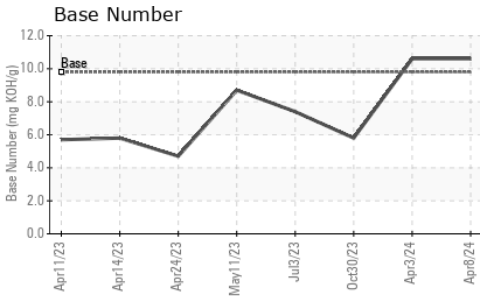
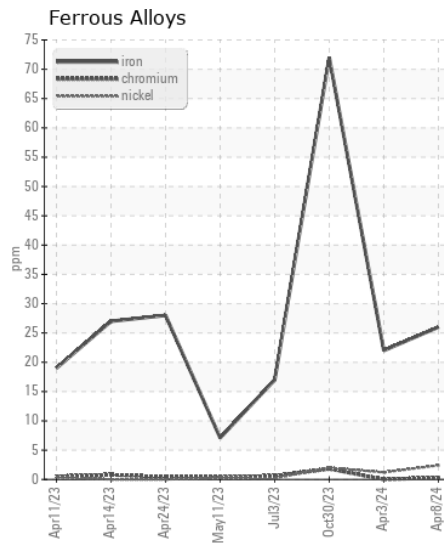
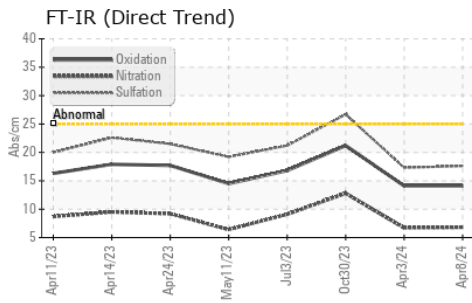
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	9	8	31
Potassium	ppm	ASTM D5185m	>20	24	11	50
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.10
Soot %	%	*ASTM D7844	>4	0.6	0.6	1.4
Nitration	Abs/cm	*ASTM D7624	>20	6.8	6.7	12.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	17.3	26.7
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		67	57	356
Boron	ppm	ASTM D5185m	0	16	16	12
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	62	64
Manganese	ppm	ASTM D5185m	0	<1	0	1
Magnesium	ppm	ASTM D5185m	1010	905	1024	878
Calcium	ppm	ASTM D5185m	1070	1058	1149	1083
Phosphorus	ppm	ASTM D5185m	1150	1042	1120	924
Zinc	ppm	ASTM D5185m	1270	1222	1350	1218
Sulfur	ppm	ASTM D5185m	2060	3737	4281	2764
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	14.1	21.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	10.6	10.6	5.8
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.1	13.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0080694
Lab Number : 06150906
Unique Number : 10980984
Test Package : FLEET

GFL Environmental - 172 - Montgomery-Alexander City-Tallahassee
 Multiple Sites
 Montgomery, AL
 US 36108
 Contact: RICHARD HATFIELD
 rhatfield@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)

T:
F: