



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
759M
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (36 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0114323	GFL0110064	GFL0084949
Sample Date		Client Info		15 Mar 2024	08 Feb 2024	25 Sep 2023
Machine Age	hrs	Client Info		1020	18945	17954
Oil Age	hrs	Client Info		0	991	17954
Filter Age	hrs	Client Info		0	0	17954
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	74	▲ 93	9
Chromium	ppm	ASTM D5185m	>5	4	2	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	6	14	2
Lead	ppm	ASTM D5185m	>25	1	28	<1
Copper	ppm	ASTM D5185m	>100	40	7	4
Tin	ppm	ASTM D5185m	>4	2	3	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

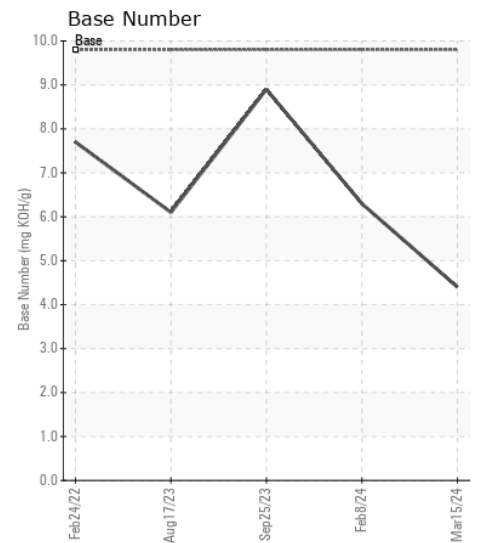
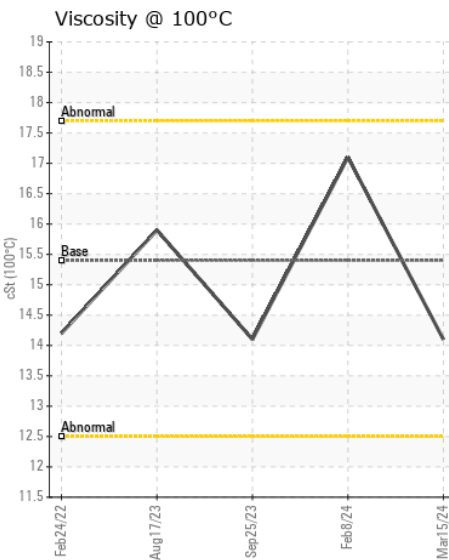
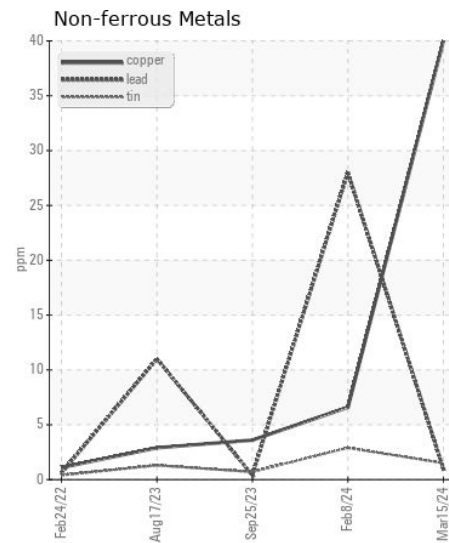
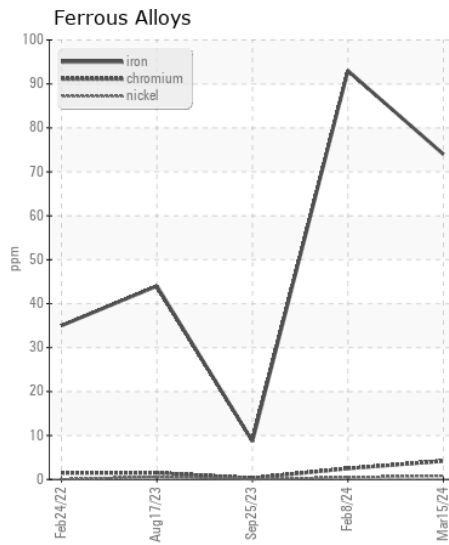
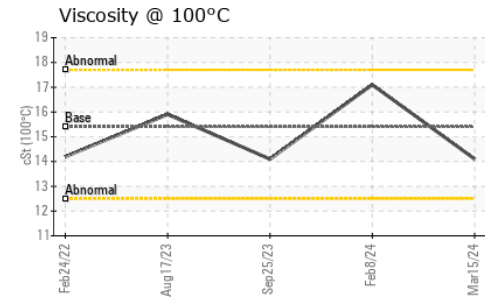
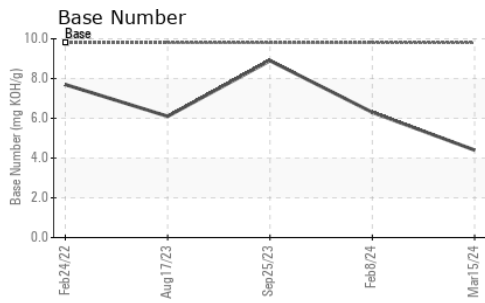
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	16	12	8
Potassium	ppm	ASTM D5185m	>20	5	0	6
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	1	0.5	0.1
Nitration	Abs/cm	*ASTM D7624	>20	16.3	14.9	5.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.0	32.7	17.8
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		15	34	▲ 132
Boron	ppm	ASTM D5185m	0	6	8	10
Barium	ppm	ASTM D5185m	0	1	0	0
Molybdenum	ppm	ASTM D5185m	60	54	82	65
Manganese	ppm	ASTM D5185m	0	2	1	1
Magnesium	ppm	ASTM D5185m	1010	825	1326	965
Calcium	ppm	ASTM D5185m	1070	1095	1506	1096
Phosphorus	ppm	ASTM D5185m	1150	901	1429	1047
Zinc	ppm	ASTM D5185m	1270	1186	1772	1270
Sulfur	ppm	ASTM D5185m	2060	2225	3047	3140
Oxidation	Abs/.1mm	*ASTM D7414	>25	29.9	39.3	13.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	4.4	6.3	8.9
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	17.1	14.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0114323
Lab Number : 06122130
Unique Number : 10936281
Test Package : FLEET

Received : 19 Mar 2024
Tested : 20 Mar 2024
Diagnosed : 21 Mar 2024 - Don Baldrige

GFL Environmental - 468 - Dearborn
 3051 Schaefer Rd
 Dearborn, MI
 US 48126
 Contact:

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: