



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
7808M
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0104433	GFL0104377	GFL0109966
Sample Date		Client Info		15 Mar 2024	04 Mar 2024	24 Jan 2024
Machine Age	mls	Client Info		131779	12396	12299
Oil Age	mls	Client Info		0	600	600
Filter Age	mls	Client Info		0	600	600
Oil Changed		Client Info		Not Chngd	Changed	Changed
Filter Changed		Client Info		Not Chngd	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>80	30	27	▲ 95
Chromium	ppm	ASTM D5185m	>5	1	<1	3
Nickel	ppm	ASTM D5185m	>2	<1	0	1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	5	3	9
Lead	ppm	ASTM D5185m	>30	2	1	9
Copper	ppm	ASTM D5185m	>150	<1	1	1
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

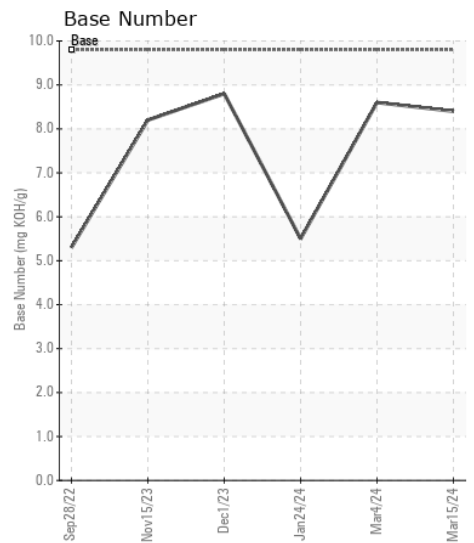
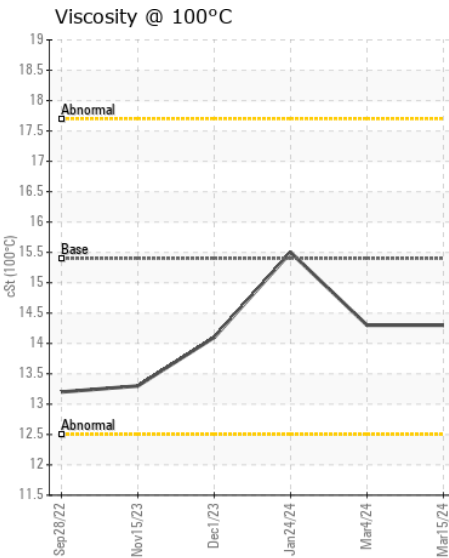
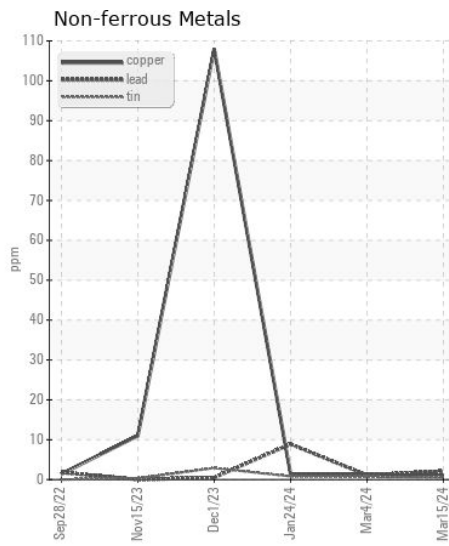
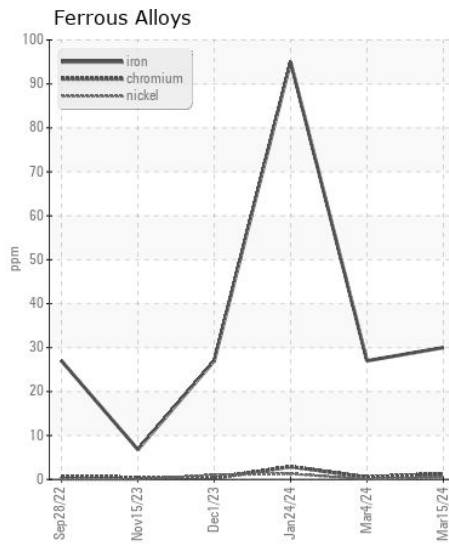
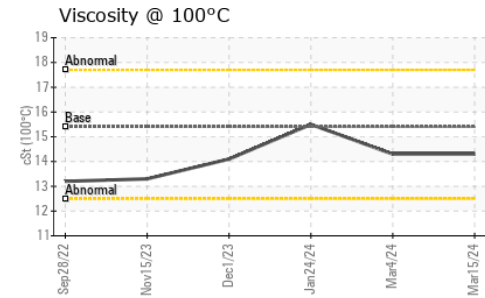
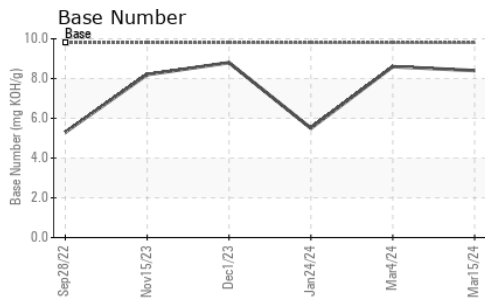
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	6	4	10
Potassium	ppm	ASTM D5185m	>20	7	2	12
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.4	1.2
Nitration	Abs/cm	*ASTM D7624	>20	8.4	7.5	16.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	19.9	30.3
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		4	5	8
Boron	ppm	ASTM D5185m	0	1	<1	3
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	60	62	59	60
Manganese	ppm	ASTM D5185m	0	<1	0	1
Magnesium	ppm	ASTM D5185m	1010	933	1044	906
Calcium	ppm	ASTM D5185m	1070	1063	1122	1039
Phosphorus	ppm	ASTM D5185m	1150	979	1119	1012
Zinc	ppm	ASTM D5185m	1270	1227	1304	1235
Sulfur	ppm	ASTM D5185m	2060	2947	3286	2404
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	16.7	35.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	8.6	5.5
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.3	15.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0104433
Lab Number : 06122113
Unique Number : 10936264
Test Package : FLEET

Received : 19 Mar 2024
Tested : 20 Mar 2024
Diagnosed : 20 Mar 2024 - Wes Davis

GFL Environmental - 410 - Michigan West
 39000 Van Born Rd
 Wayne, MI
 US 48184

Contact: Belal Dgheish
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T: (734)714-2340

F:

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)