



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(YA134250)
Machine Id
10778
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (7 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0101386	GFL0066659	GFL0046923
Sample Date		Client Info		29 Jan 2024	26 Jan 2023	21 Apr 2022
Machine Age	hrs	Client Info		0	0	9230
Oil Age	hrs	Client Info		0	0	8236
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	11	12	11
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	2
Lead	ppm	ASTM D5185m	>150	0	2	<1
Copper	ppm	ASTM D5185m	>90	<1	4	1
Tin	ppm	ASTM D5185m	>5	0	<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

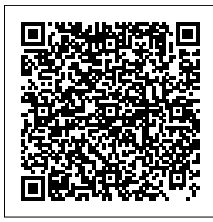
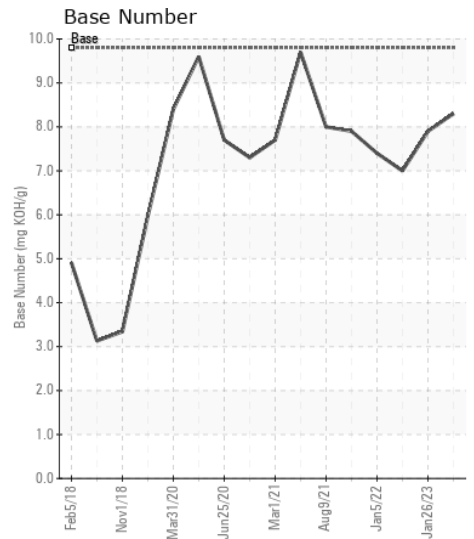
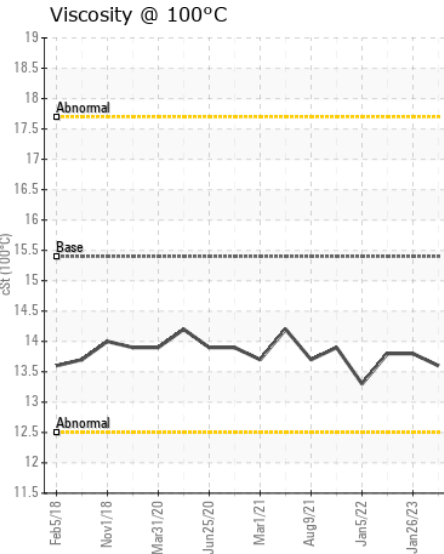
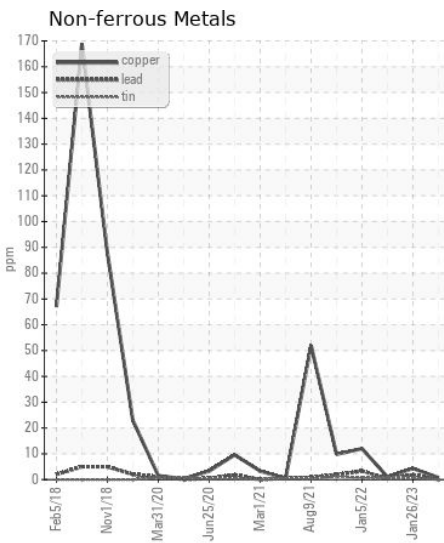
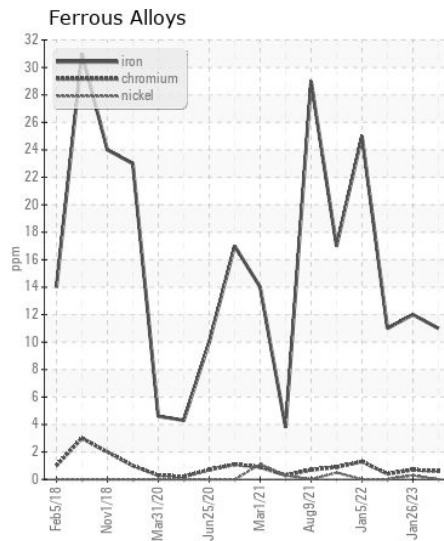
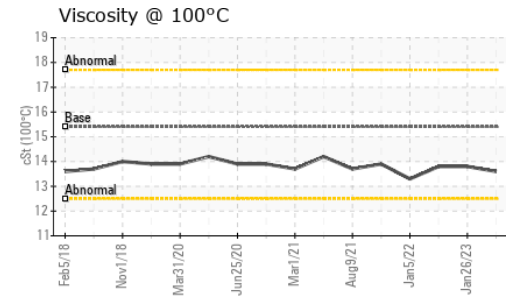
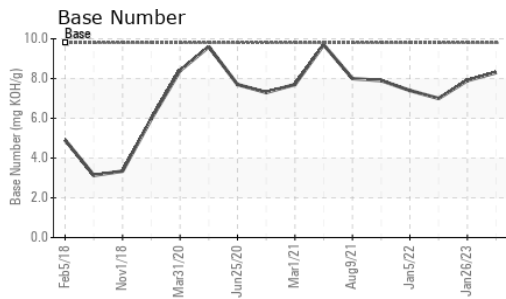
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	3	9	3
Potassium	ppm	ASTM D5185m	>20	1	2	2
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	>7.5	0.4	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.7	7.9	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	19.3	20.2
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		2	3	5
Boron	ppm	ASTM D5185m	0	10	12	8
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	69	14
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	949	1000	190
Calcium	ppm	ASTM D5185m	1070	1113	1344	2214
Phosphorus	ppm	ASTM D5185m	1150	1034	1151	949
Zinc	ppm	ASTM D5185m	1270	1254	1386	1082
Sulfur	ppm	ASTM D5185m	2060	3198	3936	3215
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	14.8	13.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	7.9	7.0
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.8	13.8



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0101386 **Received** : 30 Jan 2024
Lab Number : 06073484 **Diagnosed** : 30 Jan 2024
Unique Number : 10850161 **Diagnostician** : Wes Davis
Test Package : FLEET

GFL Environmental - 112 - New Bern
 705 Airport Road
 New Bern, NC
 US 28560
 Contact: Marquis Williams
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 T:
 F:

Certificate L2367
 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)