



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
927051
 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		GFL0123761	GFL0113004	GFL0108397
Sample Date		Client Info		24 May 2024	12 Mar 2024	29 Dec 2023
Machine Age	hrs	Client Info		17256	16680	16068
Oil Age	hrs	Client Info		17256	16680	16068
Filter Age	hrs	Client Info		17256	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	>110	10	10	6
Chromium	ppm	ASTM D5185m	>4	2	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	1	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	<1
Lead	ppm	ASTM D5185m	>45	2	0	<1
Copper	ppm	ASTM D5185m	>85	2	<1	2
Tin	ppm	ASTM D5185m	>4	<1	0	<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

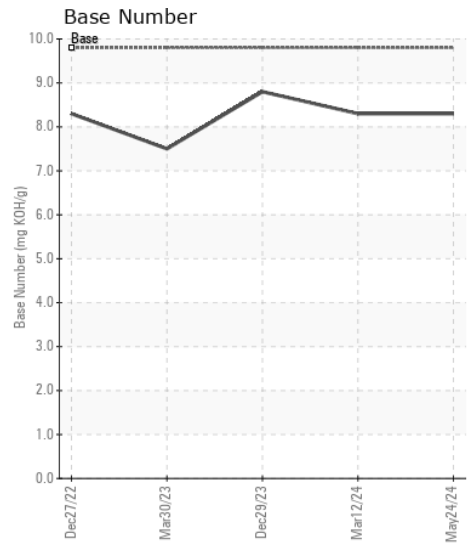
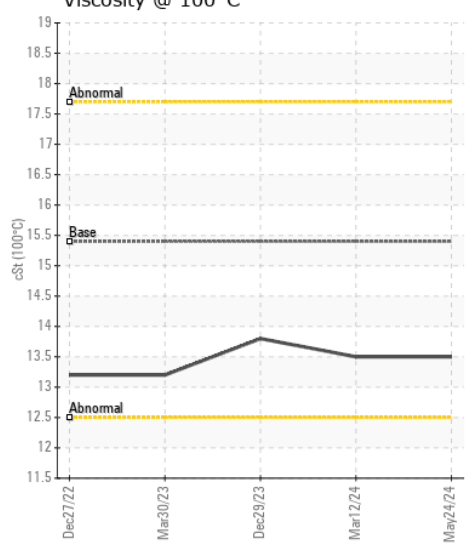
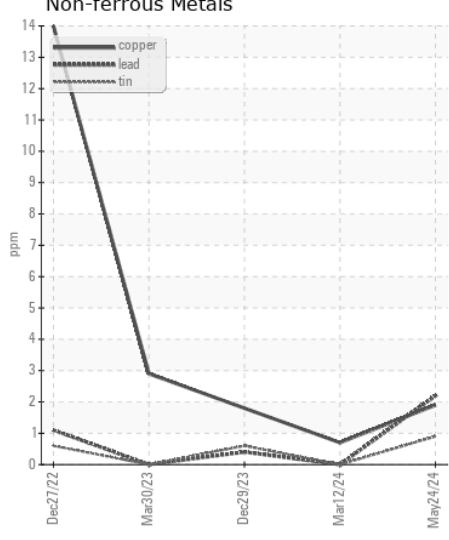
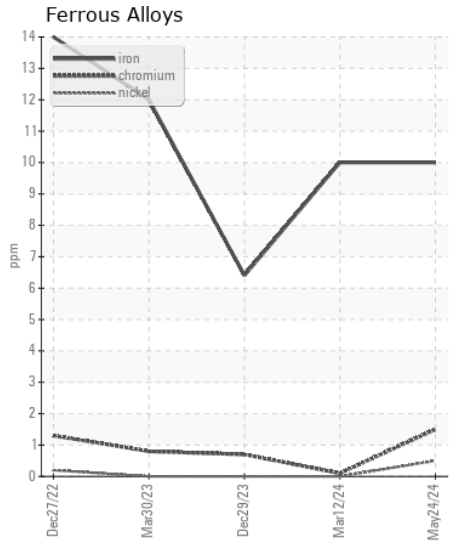
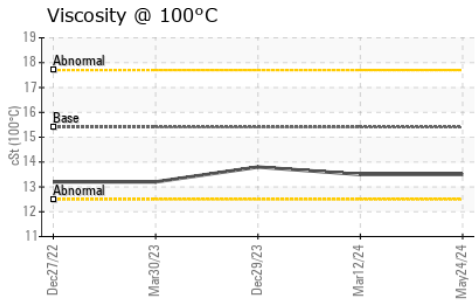
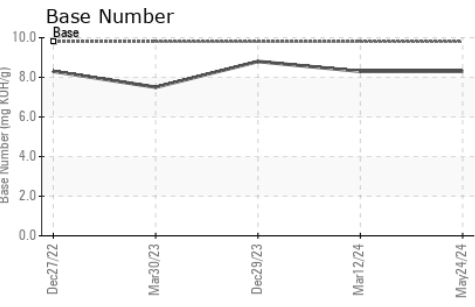
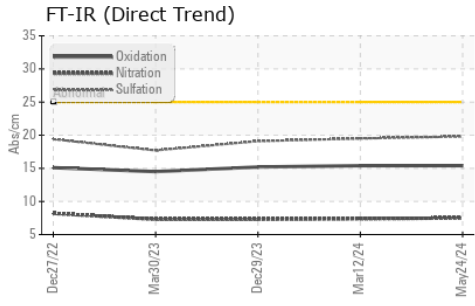
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	7	8	10
Potassium	ppm	ASTM D5185m	>20	3	0	<1
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	0.3	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.4	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	19.5	19.1
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	4
Boron	ppm	ASTM D5185m	0	3	<1	1
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	62	62	58
Manganese	ppm	ASTM D5185m	0	<1	0	0
Magnesium	ppm	ASTM D5185m	1010	992	1071	976
Calcium	ppm	ASTM D5185m	1070	1104	1175	1054
Phosphorus	ppm	ASTM D5185m	1150	1050	1102	1089
Zinc	ppm	ASTM D5185m	1270	1269	1377	1235
Sulfur	ppm	ASTM D5185m	2060	3183	3701	3098
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	15.4	15.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	8.3	8.8
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.5	13.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0123761
Lab Number : 06191936
Unique Number : 11048688
Test Package : FLEET
Received : 28 May 2024
Tested : 29 May 2024
Diagnosed : 30 May 2024 - Don Baldrige

GFL Environmental - 918 - Hartland HC
 630 E Industrial Drive
 Hartland, WI
 US 53029
 Contact: David McCall
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 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)