



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(TX241091)

Machine Id
8122

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 15W40 (8 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0112132	GFL0098061	GFL0060050
Sample Date		Client Info		08 Feb 2024	29 Jan 2024	06 Jul 2023
Machine Age	hrs	Client Info		5636	5636	5636
Oil Age	hrs	Client Info		5593	5593	5593
Filter Age	hrs	Client Info		55	55	55
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	7	18	12
Chromium	ppm	ASTM D5185m	>5	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	<1
Lead	ppm	ASTM D5185m	>150	1	2	0
Copper	ppm	ASTM D5185m	>90	2	3	<1
Tin	ppm	ASTM D5185m	>5	<1	1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

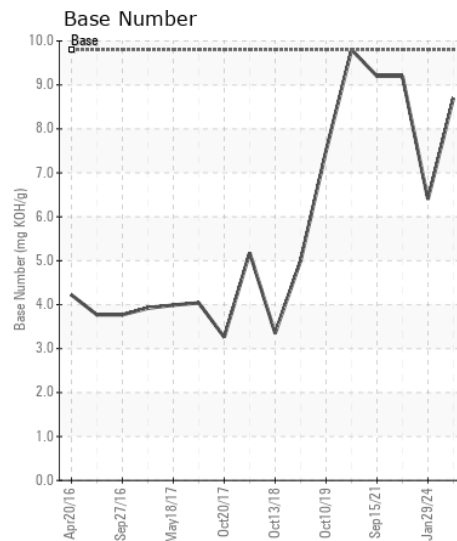
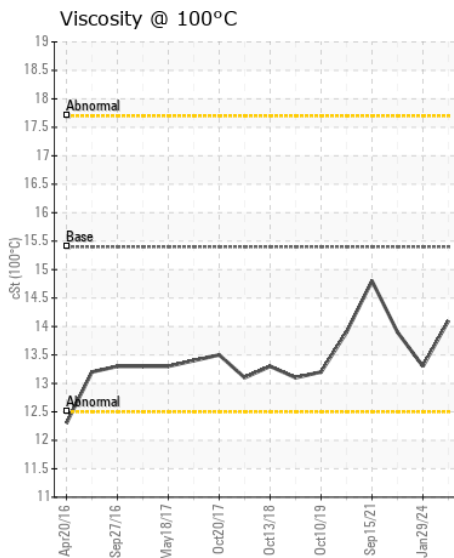
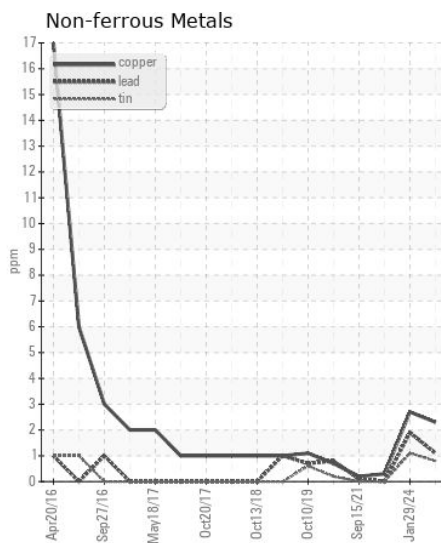
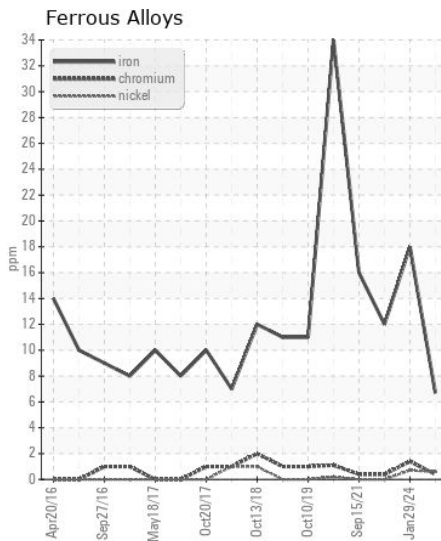
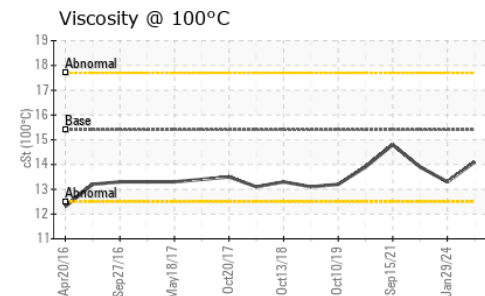
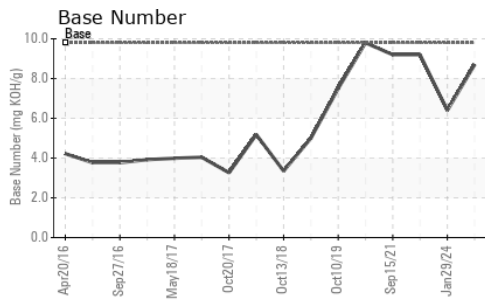
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	5	6	3
Potassium	ppm	ASTM D5185m	>20	2	4	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	0.1	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	5.7	9.7	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	19.9	18.7
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		0	3	4
Boron	ppm	ASTM D5185m	0	13	6	21
Barium	ppm	ASTM D5185m	0	13	14	0
Molybdenum	ppm	ASTM D5185m	60	57	62	58
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	835	924	936
Calcium	ppm	ASTM D5185m	1070	992	1033	1129
Phosphorus	ppm	ASTM D5185m	1150	995	970	989
Zinc	ppm	ASTM D5185m	1270	1114	1202	1181
Sulfur	ppm	ASTM D5185m	2060	3407	3131	3462
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	17.8	14.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.7	6.4	9.2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	13.3	13.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : GFL0112132
 Lab Number : 06085668
 Unique Number : 10873113
 Test Package : FLEET

Received : 12 Feb 2024
 Tested : 12 Feb 2024
 Diagnosed : 12 Feb 2024 - Wes Davis

GFL Environmental - 045 - Tidewater
 3821 Cook Blvd.
 Chesapeake, VA
 US 23323

Contact: ELVIN RODRIGUEZ
 elvinrodriguez@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)

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F: