



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(C0807580) {UNASSIGNED}
Machine Id
834020
Component
Natural Gas 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		GFL0112361	GFL0109949	GFL0107222
Sample Date		Client Info		29 Feb 2024	02 Feb 2024	08 Jan 2024
Machine Age	hrs	Client Info		1795	1626	1350
Oil Age	hrs	Client Info		1783	428	152
Filter Age	hrs	Client Info		1783	428	152
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	>50	19	23	17
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	1	0	1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	4	2	4
Lead	ppm	ASTM D5185m	>30	2	1	2
Copper	ppm	ASTM D5185m	>35	5	6	4
Tin	ppm	ASTM D5185m	>4	2	<1	2
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

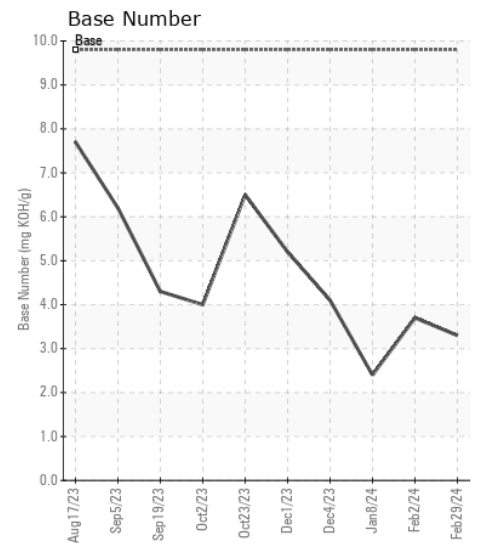
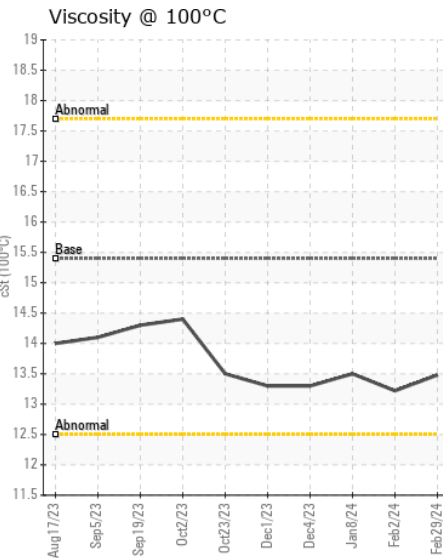
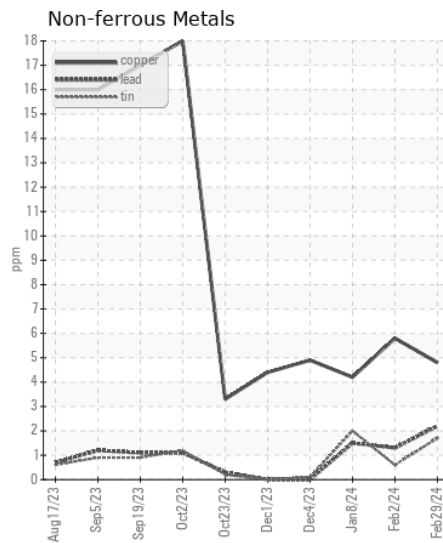
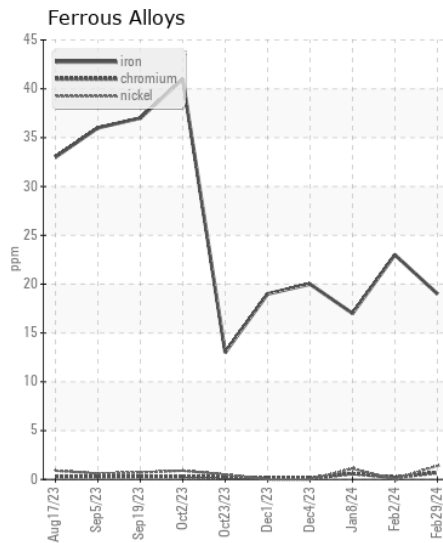
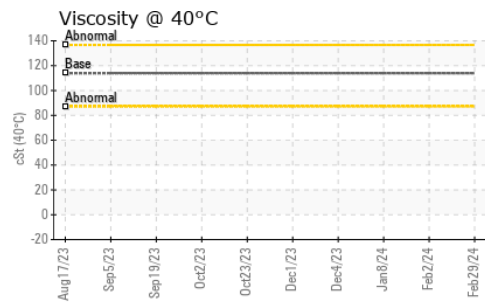
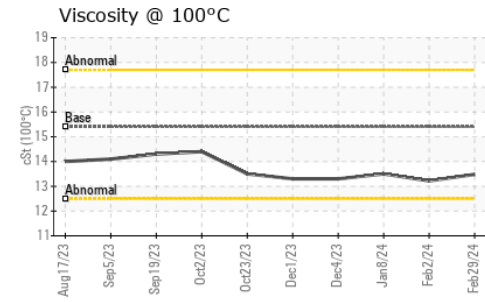
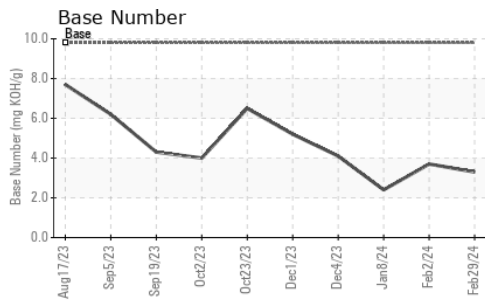
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	7	7	7
Potassium	ppm	ASTM D5185m	>20	4	4	0
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	10.2	9.4	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	23.0	20.3
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	>0.1	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		7	1	3
Boron	ppm	ASTM D5185m	0	2	4	0
Barium	ppm	ASTM D5185m	0	0	6	0
Molybdenum	ppm	ASTM D5185m	60	66	71	65
Manganese	ppm	ASTM D5185m	0	2	1	2
Magnesium	ppm	ASTM D5185m	1010	922	973	950
Calcium	ppm	ASTM D5185m	1070	1113	1101	1111
Phosphorus	ppm	ASTM D5185m	1150	924	818	921
Zinc	ppm	ASTM D5185m	1270	1250	1225	1274
Sulfur	ppm	ASTM D5185m	2060	2438	2525	2686
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	16.6	15.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	3.3	3.7	2.4
Visc @ 100°C	cSt	ASTM D445	15.4	13.48	13.22	13.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : GFL0112361

Lab Number : 06106495

Unique Number : 10909992

Test Package : FLEET (Additional Tests: KV40)

Received : 01 Mar 2024

Tested : 07 Mar 2024

Diagnosed : 07 Mar 2024 - Jonathan Hester

GFL Environmental - 010 - Stockbridge

1280 Rum Creek Parkway

Stockbridge, GA

US 30281

Contact: JOSHUA TINKER

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T:

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)