



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
4667M
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (36 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: Resample)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0106661	GFL0097744	GFL0097723
Sample Date		Client Info		12 Jan 2024	13 Dec 2023	26 Nov 2023
Machine Age	hrs	Client Info		16018	15773	15616
Oil Age	hrs	Client Info		200	600	110
Filter Age	hrs	Client Info		200	600	110
Oil Changed		Client Info		Not Chngd	Changed	Changed
Filter Changed		Client Info		Not Chngd	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	23	22	57
Chromium	ppm	ASTM D5185m	>20	1	<1	2
Nickel	ppm	ASTM D5185m	>2	2	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	1	2	3
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	31	19	<1
Tin	ppm	ASTM D5185m	>15	1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

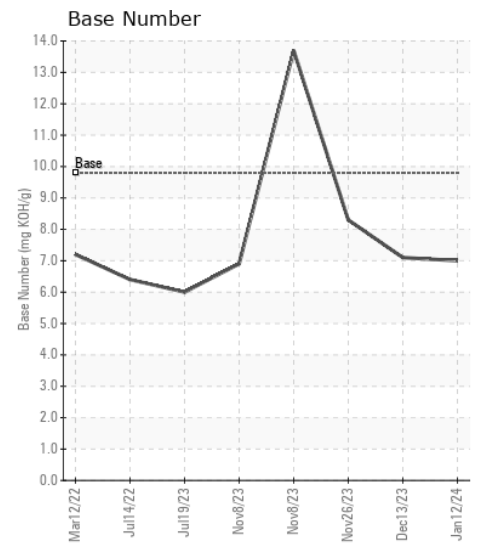
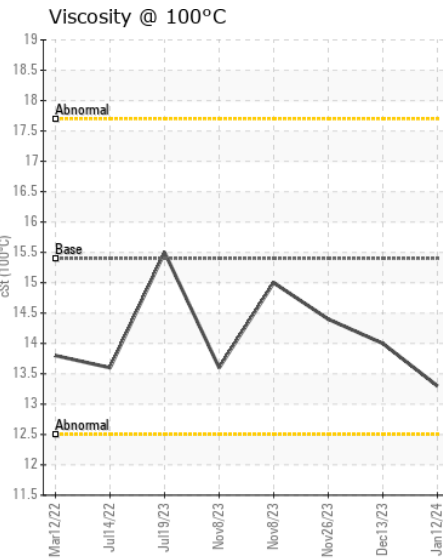
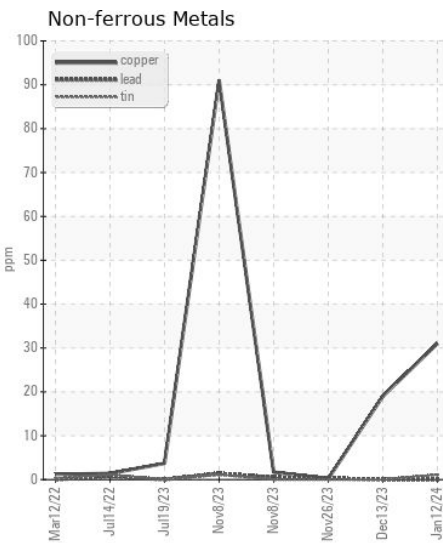
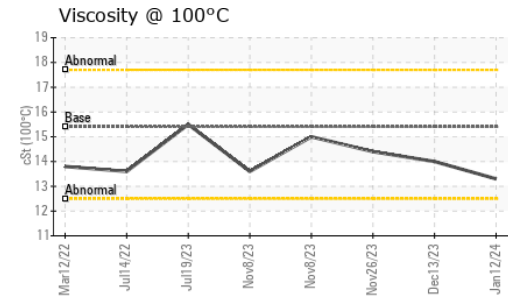
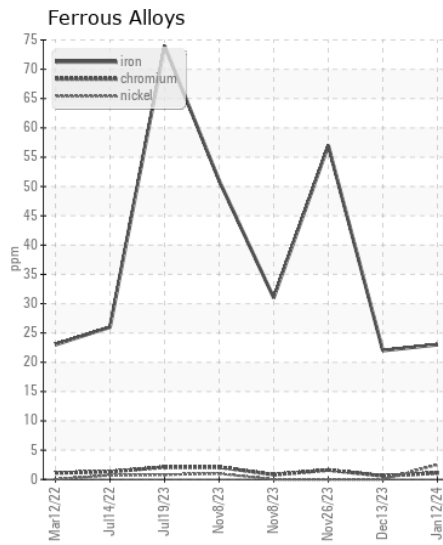
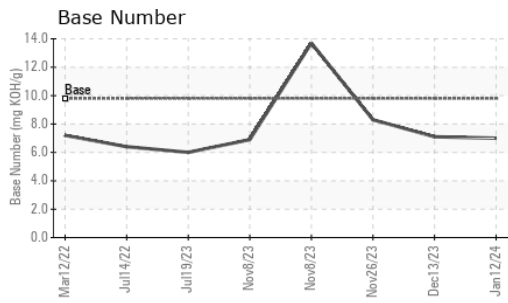
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	9	7
Potassium	ppm	ASTM D5185m	>20	<1	4	<1
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	>6	0.4	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	8.8	9.3	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	20.7	20.0
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	▲ 344	3
Boron	ppm	ASTM D5185m	0	17	5	8
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	67	63	64
Manganese	ppm	ASTM D5185m	0	1	<1	0
Magnesium	ppm	ASTM D5185m	1010	1020	894	1105
Calcium	ppm	ASTM D5185m	1070	1187	993	1284
Phosphorus	ppm	ASTM D5185m	1150	1090	1011	1254
Zinc	ppm	ASTM D5185m	1270	1348	1234	1607
Sulfur	ppm	ASTM D5185m	2060	3113	2870	3706
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	16.2	16.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.0	7.1	8.3
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	14.0	14.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0106661 **Received** : 19 Jan 2024
Lab Number : 06065376 **Diagnosed** : 22 Jan 2024
Unique Number : 10836758 **Diagnostician** : Sean Felton
Test Package : FLEET

GFL Environmental - 405 - Arbor Hills
 7400 Napier Rd
 NORTHVILLE, MI
 US 48168
 Contact: Anthony Hopkins
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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)