



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
565M
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (5 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0115138	GFL0115177	GFL0089173
Sample Date		Client Info		05 Apr 2024	26 Mar 2024	21 Nov 2023
Machine Age	hrs	Client Info		17344	17233	16402
Oil Age	hrs	Client Info		111	0	2600
Filter Age	hrs	Client Info		111	0	2600
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	36	▲ 178	43
Chromium	ppm	ASTM D5185m	>20	2	6	2
Nickel	ppm	ASTM D5185m	>2	0	4	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	● 12	3
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	0	3	1
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

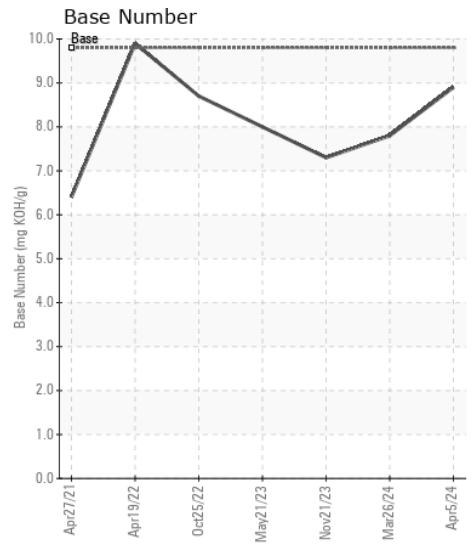
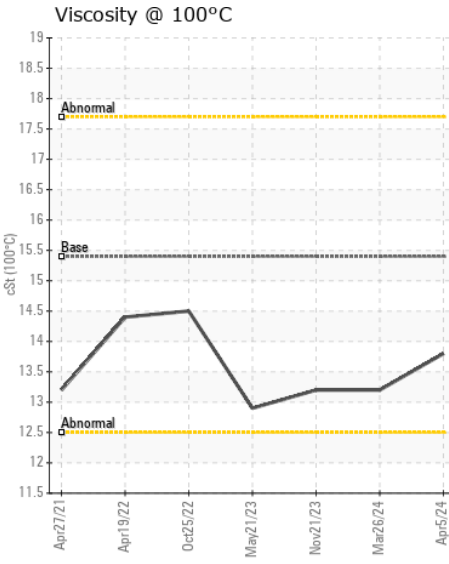
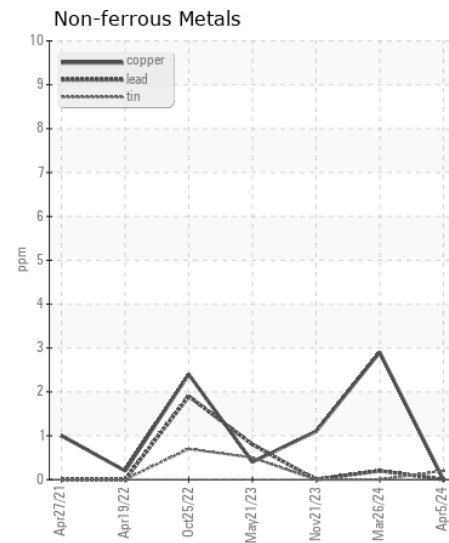
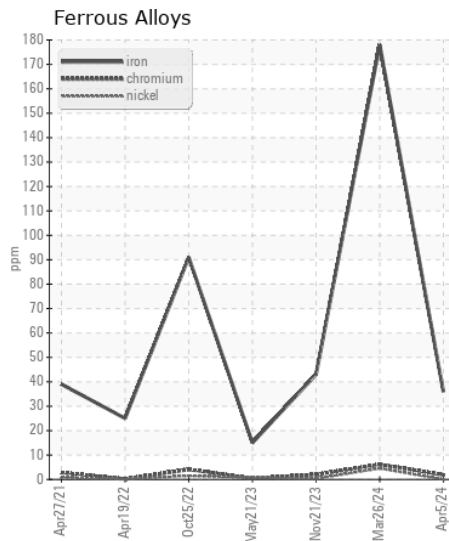
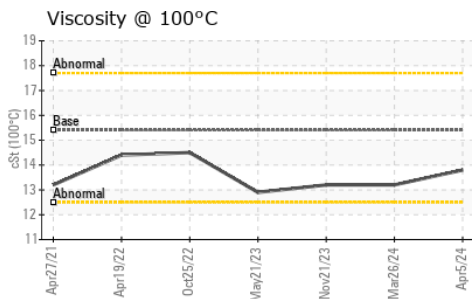
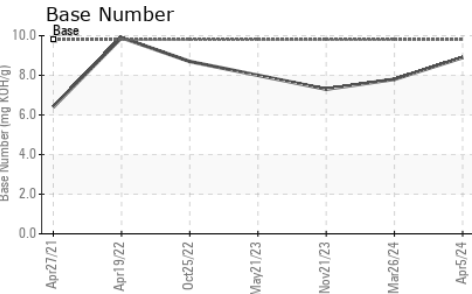
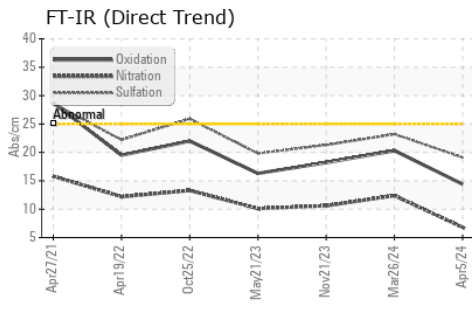
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	12	▲ 31	13
Potassium	ppm	ASTM D5185m	>20	2	3	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	>6	0.5	1.1	0.7
Nitration	Abs/cm	*ASTM D7624	>20	6.8	12.4	10.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	23.2	21.3
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	>0.2	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		41	● 137	74
Boron	ppm	ASTM D5185m	0	2	2	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	64	58
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	988	1047	940
Calcium	ppm	ASTM D5185m	1070	1100	1193	1023
Phosphorus	ppm	ASTM D5185m	1150	1146	1046	940
Zinc	ppm	ASTM D5185m	1270	1305	1315	1283
Sulfur	ppm	ASTM D5185m	2060	3658	3526	2920
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	20.3	18.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.9	7.8	7.3
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.2	13.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0115138
Lab Number : 06150107
Unique Number : 10980185
Test Package : FLEET

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