



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
3782
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (11 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0072109	GFL0072157	GFL0072199
Sample Date		Client Info		11 Jan 2024	11 Oct 2023	27 Jul 2023
Machine Age	hrs	Client Info		17328	16406	16406
Oil Age	hrs	Client Info		0	600	600
Filter Age	hrs	Client Info		0	600	600
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	23	9	16
Chromium	ppm	ASTM D5185m	>5	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>150	1	<1	0
Copper	ppm	ASTM D5185m	>90	6	<1	<1
Tin	ppm	ASTM D5185m	>5	2	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

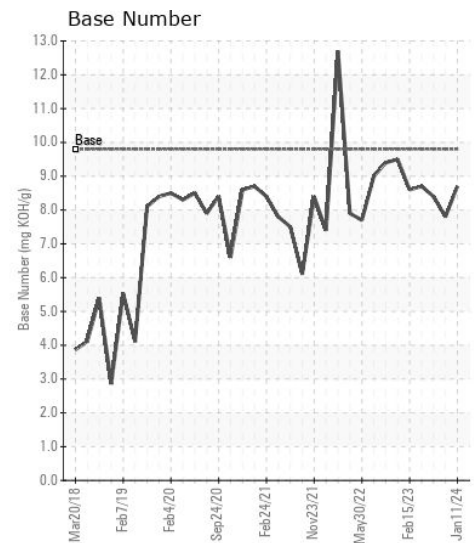
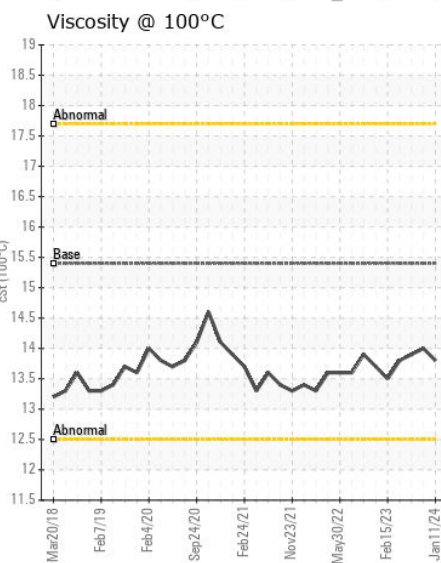
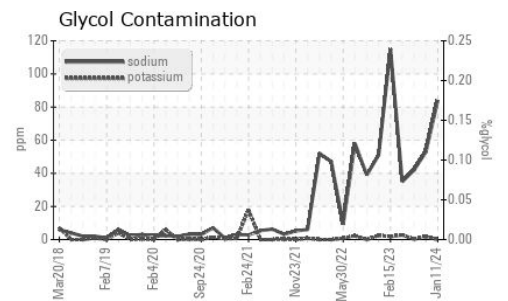
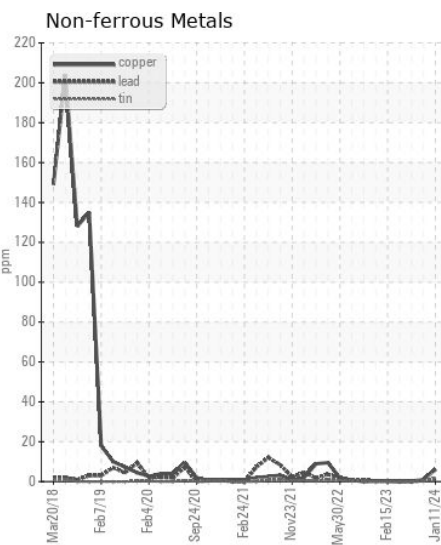
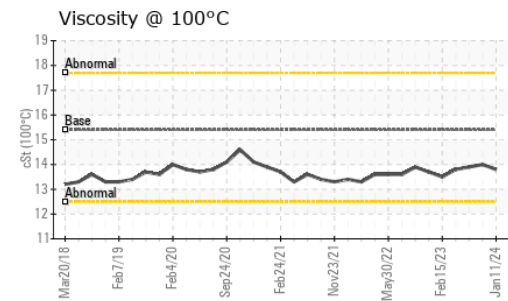
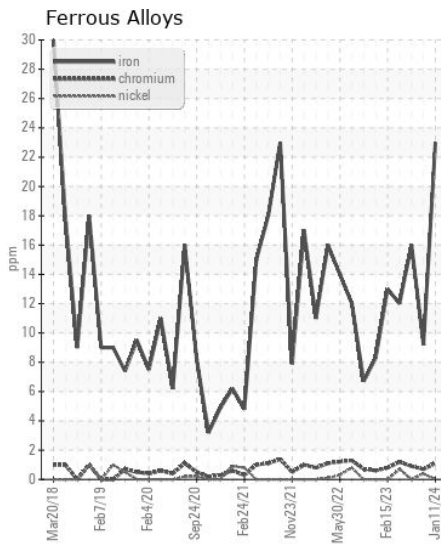
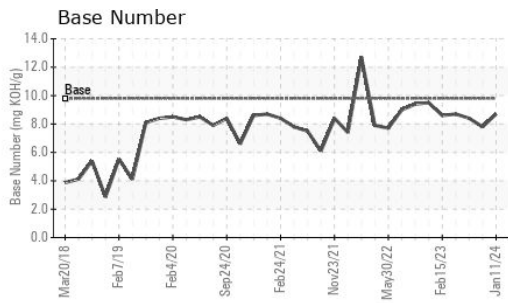
Sodium and/or potassium levels are high. Test for glycol is negative.

Silicon	ppm	ASTM D5185m	>35	11	6	5
Potassium	ppm	ASTM D5185m	>20	0	2	<1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	0.4	0.2	0.5
Nitration	Abs/cm	*ASTM D7624	>20	6.9	6.5	6.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	18.7	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		▲ 84	53	42
Boron	ppm	ASTM D5185m	0	12	7	10
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	61	60	65
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	895	881	967
Calcium	ppm	ASTM D5185m	1070	1131	1041	1106
Phosphorus	ppm	ASTM D5185m	1150	944	1022	992
Zinc	ppm	ASTM D5185m	1270	1195	1221	1228
Sulfur	ppm	ASTM D5185m	2060	2941	2981	3454
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	14.2	13.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.7	7.8	8.4
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	14.0	13.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0072109 **Received** : 16 Jan 2024
Lab Number : 06061863 **Diagnosed** : 18 Jan 2024
Unique Number : 10833245 **Diagnostician** : Jonathan Hester
Test Package : FLEET (Additional Tests: Glycol)

GFL Environmental - 094 - Cedartown
 2097 Buchanan Highway
 Cedartown, GA
 US 30125
 Contact: WILLIAM FOSTER
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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)