



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area
(YA154662)
Machine Id
3715
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		GFL0125817	GFL0111981	GFL0098787
Sample Date		Client Info		13 Jun 2024	04 Mar 2024	02 Nov 2023
Machine Age	hrs	Client Info		25073	25073	25073
Oil Age	hrs	Client Info		23862	23862	23862
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	32	28	11
Chromium	ppm	ASTM D5185m	>5	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	2	5	4
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	1	25	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

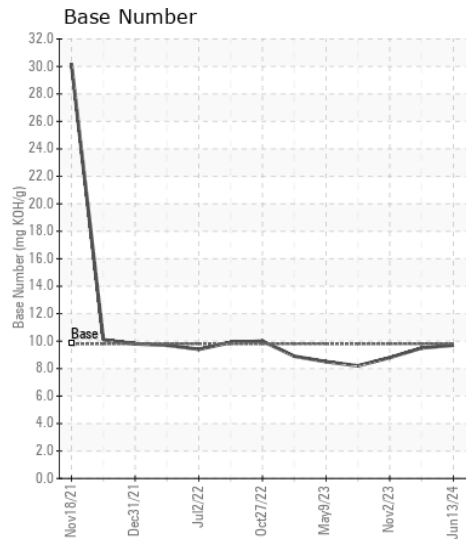
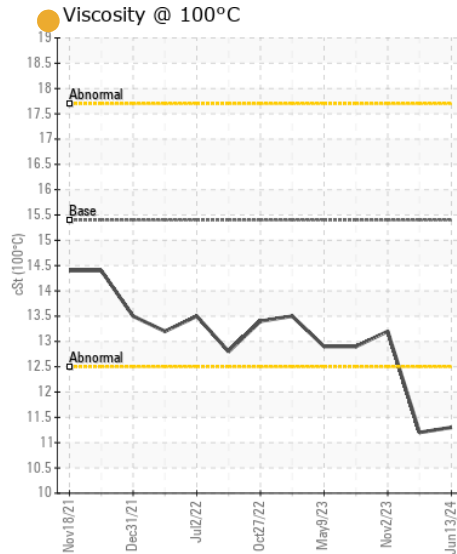
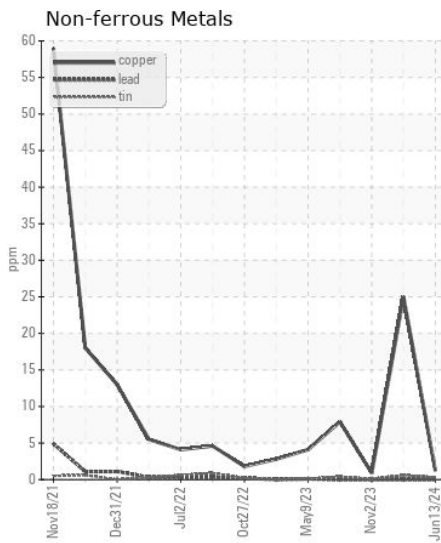
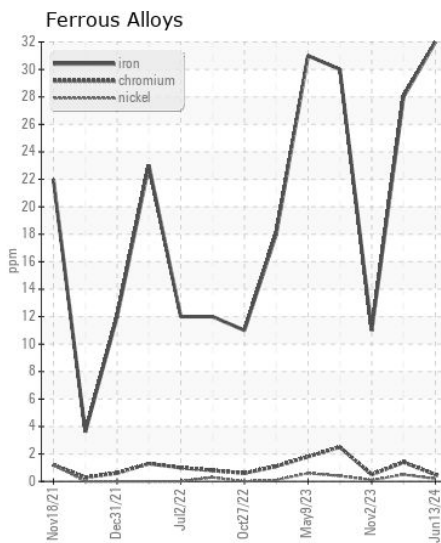
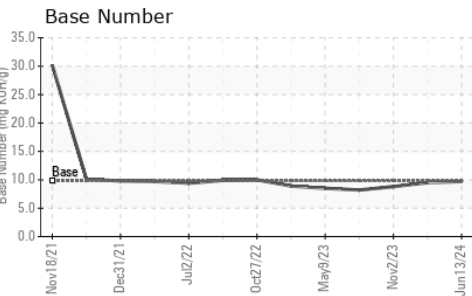
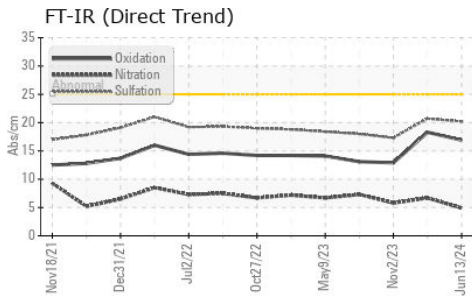
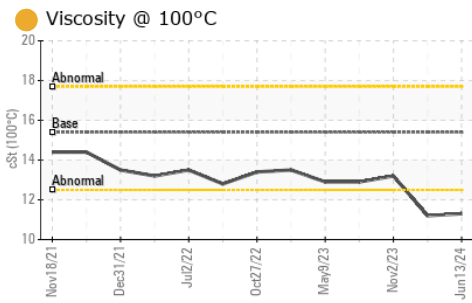
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	21	16
Potassium	ppm	ASTM D5185m	>20	1	4	2
Fuel		WC Method	>3.0	<1.0	0.3	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	0.1	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	4.9	6.7	5.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	20.7	17.3
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		1	7	5
Boron	ppm	ASTM D5185m	0	64	43	17
Barium	ppm	ASTM D5185m	0	0	5	0
Molybdenum	ppm	ASTM D5185m	60	70	52	63
Manganese	ppm	ASTM D5185m	0	<1	4	<1
Magnesium	ppm	ASTM D5185m	1010	518	468	963
Calcium	ppm	ASTM D5185m	1070	1469	1624	1118
Phosphorus	ppm	ASTM D5185m	1150	657	786	1056
Zinc	ppm	ASTM D5185m	1270	882	987	1315
Sulfur	ppm	ASTM D5185m	2060	2534	2740	3365
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	18.3	12.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.7	9.5	8.8
Visc @ 100°C	cSt	ASTM D445	15.4	11.3	11.2	13.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0125817
Lab Number : 06209840
Unique Number : 11082704
Test Package : FLEET

GFL Environmental - 19DR - Deep Run/TriEast
 2287 Leslie R Stroud Road
 Kinston, NC
 US 28504-9477
 Contact: Spencer Lignon
 spencer.lignon@gflenv.com
 T: (800)207-6618
 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)