

Machine Id
9115
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- 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		GFL011783	GFL011788	GFL0081957
Sample Date		Client Info		19 Jun 2024	13 Jun 2024	22 Oct 2023
Machine Age	hrs	Client Info		3960	3926	2820
Oil Age	hrs	Client Info		30	525	435
Filter Age	hrs	Client Info		30	525	435
Oil Changed		Client Info		Not Chngd	Changed	Changed
Filter Changed		Client Info		Not Chngd	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>75	6	46	45
Chromium	ppm	ASTM D5185(m)	>5	<1	3	2
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>15	1	5	12
Lead	ppm	ASTM D5185(m)	>25	0	1	1
Copper	ppm	ASTM D5185(m)	>100	<1	2	2
Tin	ppm	ASTM D5185(m)	>4	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	VLITE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

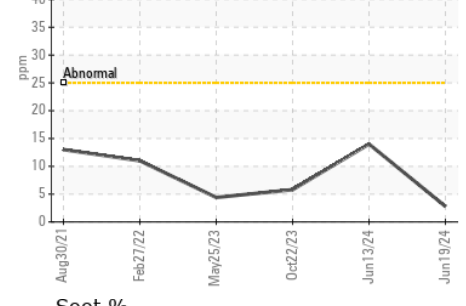
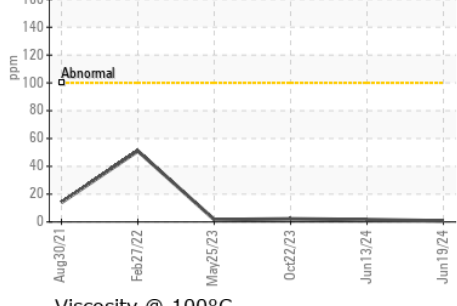
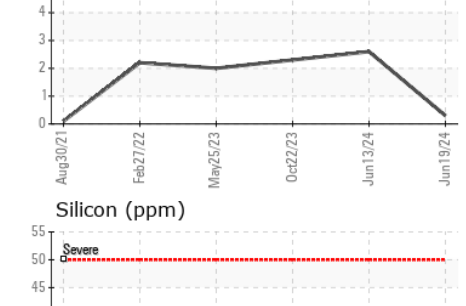
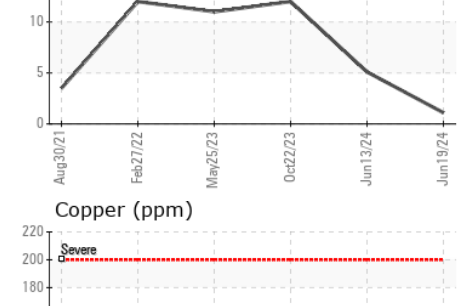
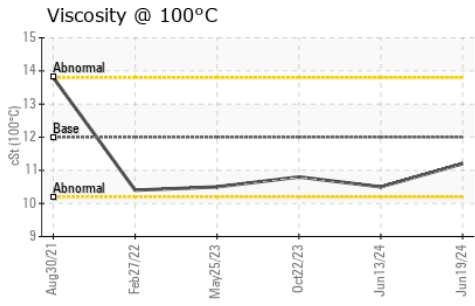
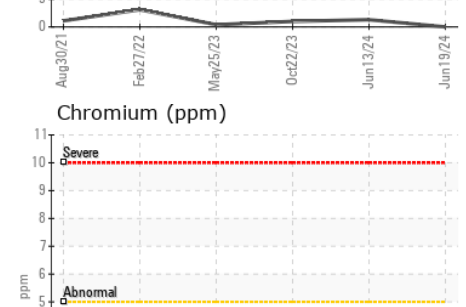
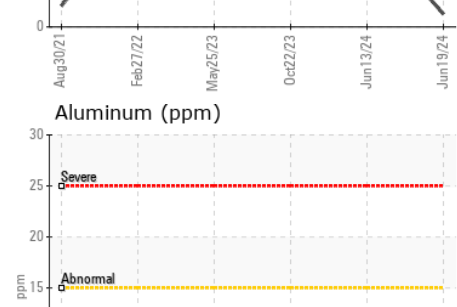
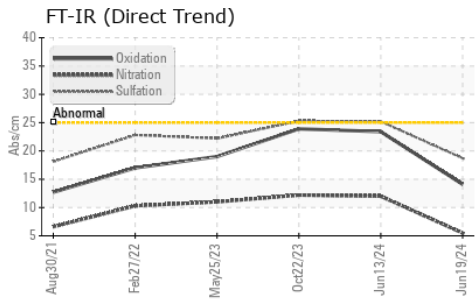
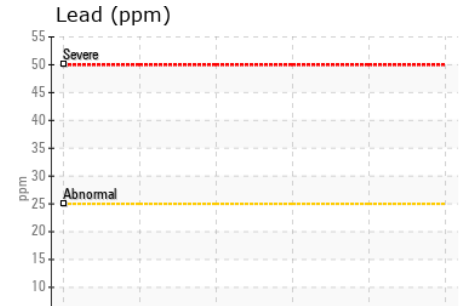
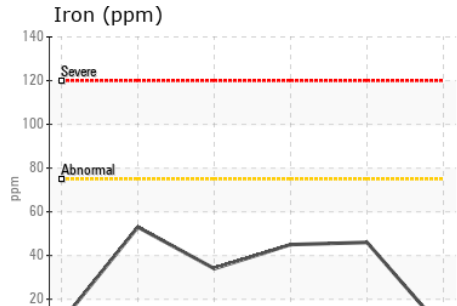
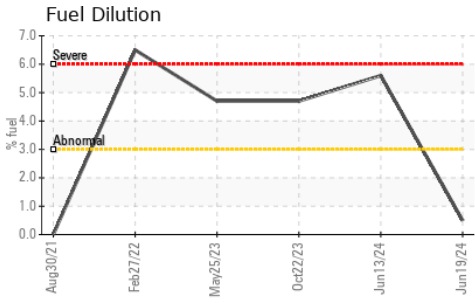
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	14	6
Potassium	ppm	ASTM D5185(m)	>20	1	6	21
Fuel	%	ASTM D7593*	>3.0	0.5	▲ 5.6	▲ 4.7
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0.1	1.3	1.3
Nitration	Abs/cm	ASTM D7624*	>20	5.5	12.0	12.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.7	25.2	25.3
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	6	6
Boron	ppm	ASTM D5185(m)	2	4	4	<1
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	50	56	58	58
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	923	923	922
Calcium	ppm	ASTM D5185(m)	1050	1006	1041	1010
Phosphorus	ppm	ASTM D5185(m)	995	957	950	962
Zinc	ppm	ASTM D5185(m)	1180	1123	1143	1147
Sulfur	ppm	ASTM D5185(m)	2600	2496	2335	2298
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.1	23.4	23.9
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.2	10.5	10.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0111783
Lab Number : 02643989
Unique Number : 5801528
Test Package : MOB 1 (Additional Tests: PercentFuel, Visual)
Received : 25 Jun 2024
Tested : 26 Jun 2024
Diagnosed : 26 Jun 2024 - Wes Davis

GFL Environmental - 557 - Edson
 6615 - 4th Ave,
 Edson, AB
 CA T7E 1M5
 Contact: GFL Tech
 wcgfldemo@gmail.com

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.