



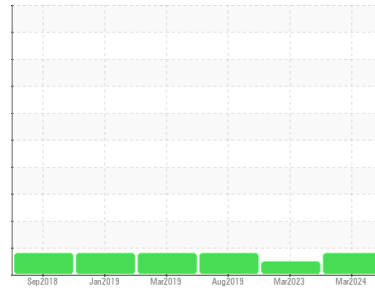
OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area
(SSZ5082)
 Machine Id
9176
 Component
Transmission (Auto)
 Fluid
PETRO CANADA DuraDrive HD Synthetic 668 (--- GAL)



DIAGNOSIS

▲ Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

▲ Wear

The nickel level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0114446	GFL0074196	PC0018321
Sample Date	Client Info		28 Mar 2024	09 Mar 2023	12 Aug 2019
Machine Age	hrs	Client Info	17135	14789	7389
Oil Age	hrs	Client Info	0	14789	0
Oil Changed	Client Info		Changed	N/A	N/A
Sample Status			ABNORMAL	NORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >220	75	40	81
Chromium	ppm	ASTM D5185m >2	<1	<1	<1
Nickel	ppm	ASTM D5185m >5	▲ 25	0	▲ 21
Titanium	ppm	ASTM D5185m	0	<1	<1
Silver	ppm	ASTM D5185m >5	0	0	0
Aluminum	ppm	ASTM D5185m >75	15	6	21
Lead	ppm	ASTM D5185m >95	12	0	47
Copper	ppm	ASTM D5185m >60	12	3	9
Tin	ppm	ASTM D5185m >10	2	<1	3
Antimony	ppm	ASTM D5185m >2	---	---	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Beryllium	ppm	ASTM D5185m	---	---	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	70	121	74
Barium	ppm	ASTM D5185m	0	0	<1
Molybdenum	ppm	ASTM D5185m	0	<1	<1
Manganese	ppm	ASTM D5185m	1	1	1
Magnesium	ppm	ASTM D5185m	2	0	<1
Calcium	ppm	ASTM D5185m	125	154	36
Phosphorus	ppm	ASTM D5185m	296	297	270
Zinc	ppm	ASTM D5185m	306	0	127
Sulfur	ppm	ASTM D5185m	1466	1556	363
Lithium	ppm	ASTM D5185m	---	---	<1

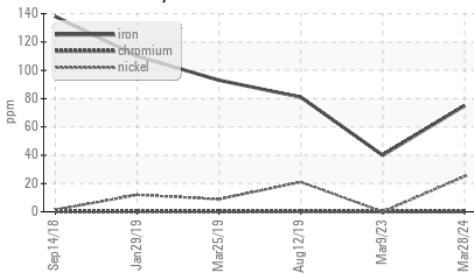
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	7	7	5
Sodium	ppm	ASTM D5185m	8	5	4
Potassium	ppm	ASTM D5185m >20	3	0	4

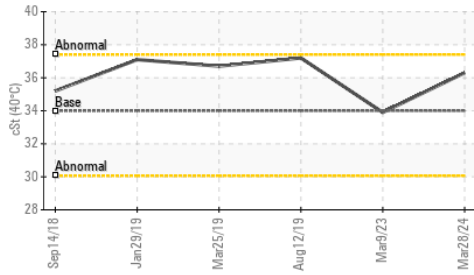


OIL ANALYSIS REPORT

▲ Ferrous Alloys



Viscosity @ 40°C



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

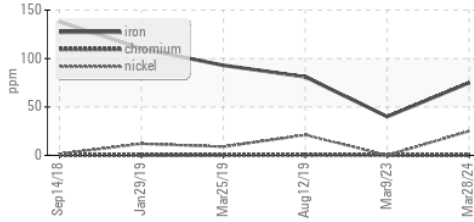
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 34	36.3	33.9	37.2

SAMPLE IMAGES

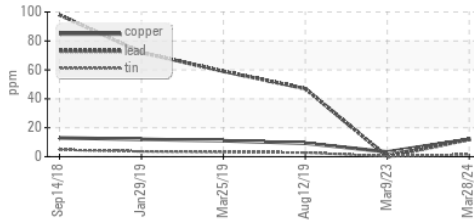
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS

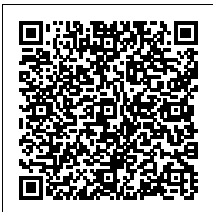
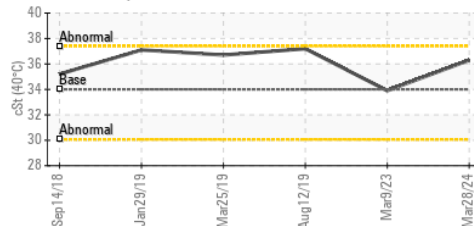
▲ Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0114446
Lab Number : **06135898**
Unique Number : 10955363
Test Package : FLEET

Received : 01 Apr 2024
Tested : 02 Apr 2024
Diagnosed : 04 Apr 2024 - Don Baldrige

GFL Environmental - 865 - East Mount Hauling
 7213 East Mount Houston Road
 Houston, TX
 US 77050
 Contact: Saul Castillo
 saul.castillo@gflenv.com

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)