



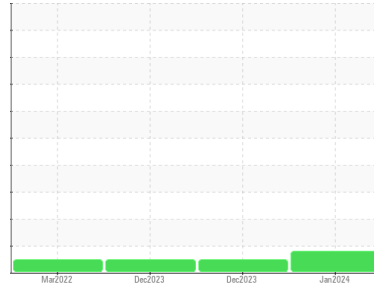
OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Machine Id
795M
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (36 GAL)



DIAGNOSIS

Recommendation

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

Wear

An increase in the iron level is noted. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0110054	GFL0104226	GFL0059294
Sample Date	Client Info		24 Jan 2024	12 Dec 2023	07 Dec 2023
Machine Age	hrs	Client Info	8207	8098	8101
Oil Age	hrs	Client Info	600	0	8101
Oil Changed	Client Info		Changed	N/A	Changed
Sample Status			ATTENTION	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >75	▲ 73	7	40
Chromium	ppm	ASTM D5185m >5	2	<1	2
Nickel	ppm	ASTM D5185m >4	1	<1	0
Titanium	ppm	ASTM D5185m >2	<1	0	0
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >15	8	2	3
Lead	ppm	ASTM D5185m >25	7	0	1
Copper	ppm	ASTM D5185m >100	2	<1	3
Tin	ppm	ASTM D5185m >4	<1	<1	0
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	3	1	<1
Barium	ppm	ASTM D5185m 0	<1	0	0
Molybdenum	ppm	ASTM D5185m 60	57	52	53
Manganese	ppm	ASTM D5185m 0	1	<1	<1
Magnesium	ppm	ASTM D5185m 1010	876	889	949
Calcium	ppm	ASTM D5185m 1070	975	967	1028
Phosphorus	ppm	ASTM D5185m 1150	986	973	1001
Zinc	ppm	ASTM D5185m 1270	1172	1218	1190
Sulfur	ppm	ASTM D5185m 2060	2464	2956	2729

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	19	2	7
Sodium	ppm	ASTM D5185m	8	1	38
Potassium	ppm	ASTM D5185m >20	4	2	1

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >6	0.9	0.3	1
Nitration	Abs/cm	*ASTM D7624 >20	13.8	6.7	13.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	25.8	18.9	24.8

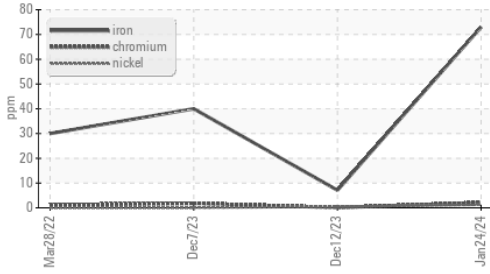
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	26.7	14.7	25.2
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	7.4	8.6	7.3

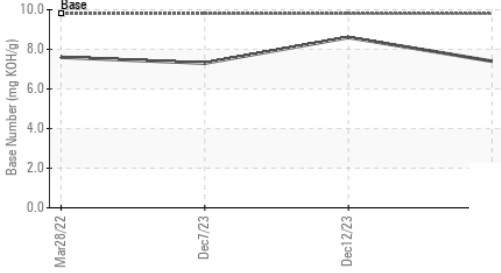


OIL ANALYSIS REPORT

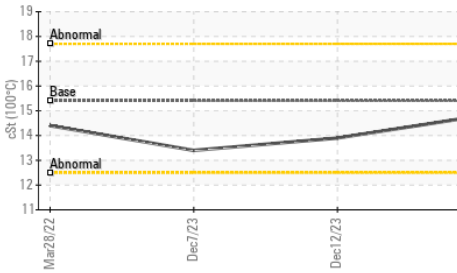
▲ Ferrous Alloys



Base Number



Viscosity @ 100°C

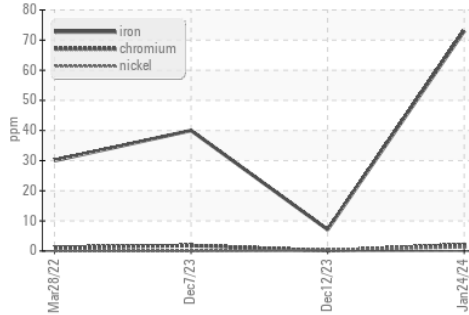


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

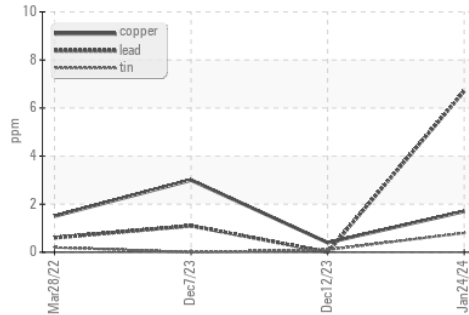
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.8	13.9

GRAPHS

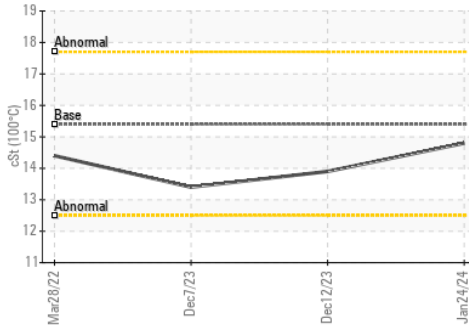
▲ Ferrous Alloys



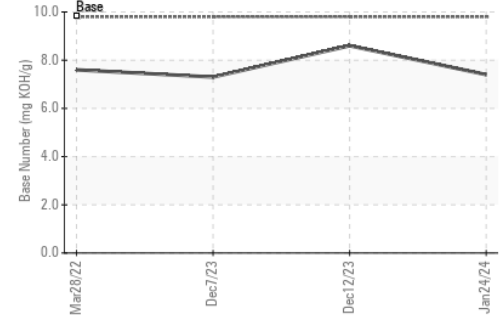
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0110054 **Recieved** : 26 Jan 2024
Lab Number : 06071337 **Diagnosed** : 30 Jan 2024
Unique Number : 10848014 **Diagnostician** : Sean Felton
Test Package : FLEET

GFL Environmental - 410 - Michigan West
 39000 Van Born Rd
 Wayne, MI
 US 48184
 Contact: Belal Dgheish
 bdgheish@gflenv.com
 T: (734)714-2340
 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)