



WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
NORMAL
NORMAL



Machine Id
720042-13039
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- 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		GFL0085345	GFL0085332	---
Sample Date		Client Info		02 Jan 2024	04 Oct 2023	---
Machine Age	hrs	Client Info		26603	26029	---
Oil Age	hrs	Client Info		26603	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ATTENTION	NORMAL	---

WEAR

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

Iron	ppm	ASTM D5185m	>120	40	12	---
Chromium	ppm	ASTM D5185m	>20	<1	0	---
Nickel	ppm	ASTM D5185m	>5	1	<1	---
Titanium	ppm	ASTM D5185m	>2	<1	0	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>20	3	2	---
Lead	ppm	ASTM D5185m	>40	▲ 23	3	---
Copper	ppm	ASTM D5185m	>330	3	<1	---
Tin	ppm	ASTM D5185m	>15	5	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

There is no indication of any contamination in the oil.

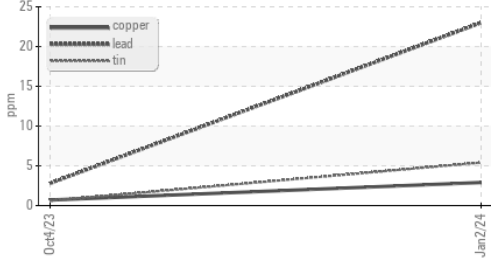
Silicon	ppm	ASTM D5185m	>25	9	5	---
Potassium	ppm	ASTM D5185m	>20	<1	2	---
Fuel		WC Method	>3.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>4	0.7	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	11.2	11.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.2	25.0	---
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	---

FLUID CONDITION

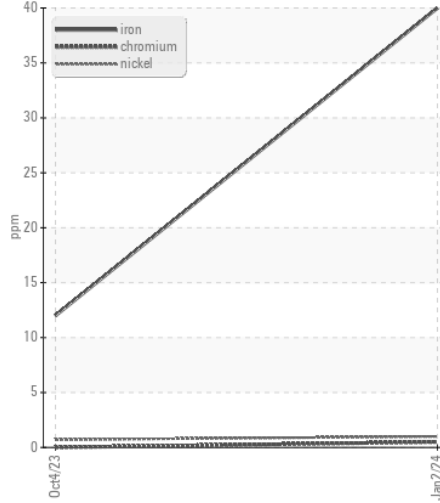
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		8	6	---
Boron	ppm	ASTM D5185m	0	5	4	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	60	72	64	---
Manganese	ppm	ASTM D5185m	0	<1	<1	---
Magnesium	ppm	ASTM D5185m	1010	1251	1112	---
Calcium	ppm	ASTM D5185m	1070	1332	1179	---
Phosphorus	ppm	ASTM D5185m	1150	1411	1167	---
Zinc	ppm	ASTM D5185m	1270	1697	1443	---
Sulfur	ppm	ASTM D5185m	2060	3762	3371	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.5	24.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.6	6.7	---
Visc @ 100°C	cSt	ASTM D445	15.4	15.0	14.3	---

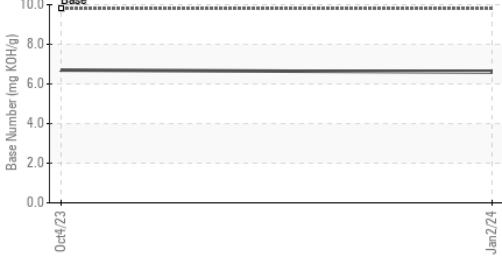
▲ Non-ferrous Metals



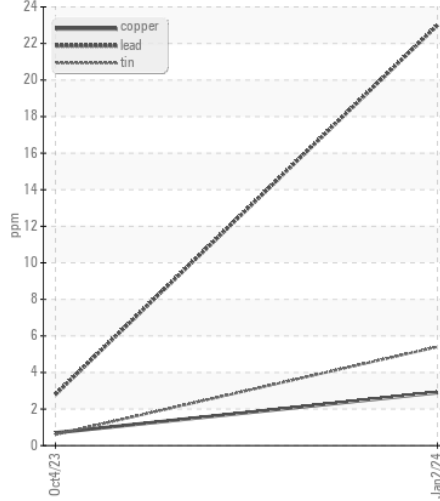
Ferrous Alloys



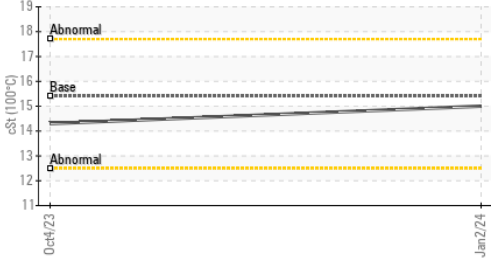
Base Number



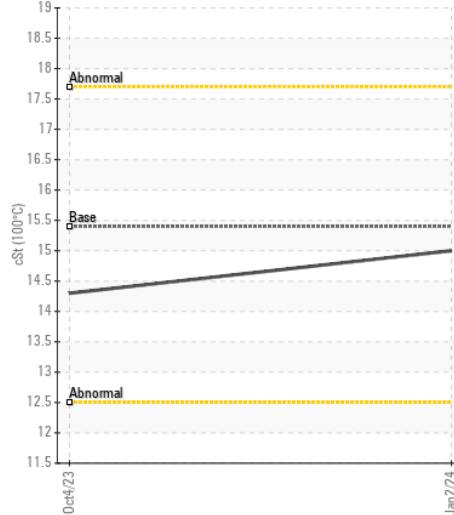
▲ Non-ferrous Metals



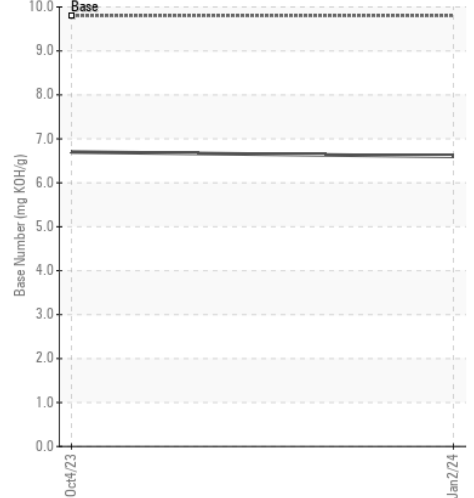
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0085345 **Received** : 08 Jan 2024
Lab Number : 06054605 **Diagnosed** : 10 Jan 2024
Unique Number : 10820554 **Diagnostician** : Sean Felton
Test Package : FLEET

GFL Environmental - 958A - Chillicothe Wigan
 19908 N. State Rd 29
 Chillicothe, IL
 US 61523
 Contact: Bryan Link
 blink@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)

T:
F: