FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
138M
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

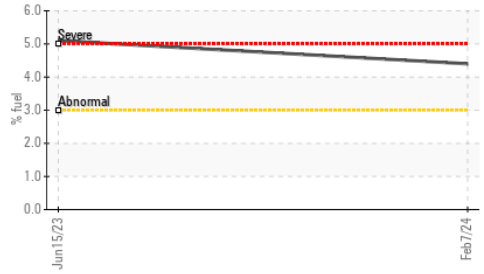
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

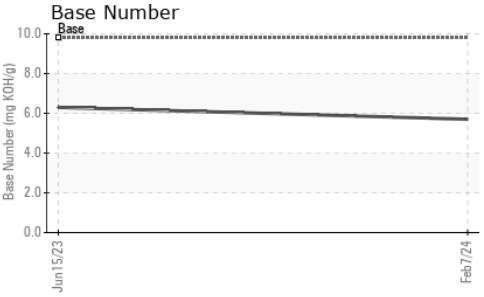
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0110063	GFL0069814	---
Sample Date		Client Info		07 Feb 2024	15 Jun 2023	---
Machine Age	hrs	Client Info		20463	18910	---
Oil Age	hrs	Client Info		1553	600	---
Filter Age	hrs	Client Info		0	600	---
Oil Changed		Client Info		Not Changd	Changed	---
Filter Changed		Client Info		Not Changd	Changed	---
Sample Status				ABNORMAL	SEVERE	---
Iron	ppm	ASTM D5185m	>120	10	13	---
Chromium	ppm	ASTM D5185m	>20	<1	0	---
Nickel	ppm	ASTM D5185m	>5	0	<1	---
Titanium	ppm	ASTM D5185m	>2	0	0	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>20	2	2	---
Lead	ppm	ASTM D5185m	>40	0	<1	---
Copper	ppm	ASTM D5185m	>330	<1	<1	---
Tin	ppm	ASTM D5185m	>15	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>25	4	3	---
Potassium	ppm	ASTM D5185m	>20	0	<1	---
Fuel	%	ASTM D3524	>3.0	▲ 4.4	⬢ 5.1	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>4	0.4	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	9.3	9.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	20.3	---
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	---
Sodium	ppm	ASTM D5185m		3	2	---
Boron	ppm	ASTM D5185m	0	1	4	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	60	55	55	---
Manganese	ppm	ASTM D5185m	0	<1	<1	---
Magnesium	ppm	ASTM D5185m	1010	885	899	---
Calcium	ppm	ASTM D5185m	1070	990	1017	---
Phosphorus	ppm	ASTM D5185m	1150	999	1002	---
Zinc	ppm	ASTM D5185m	1270	1175	1224	---
Sulfur	ppm	ASTM D5185m	2060	2642	2740	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.6	16.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.7	6.3	---
Visc @ 100°C	cSt	ASTM D445	15.4	▲ 12.4	▲ 12.3	---

Fuel Dilution

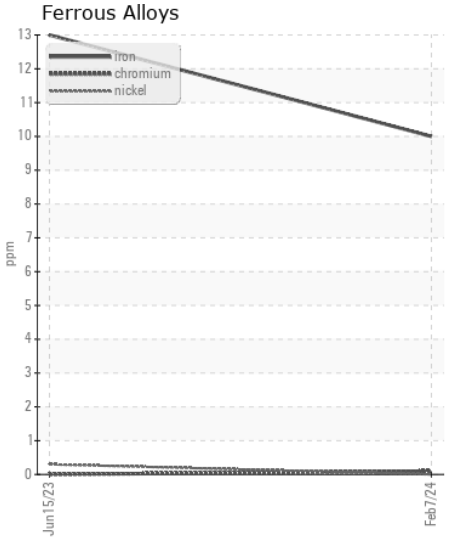


Viscosity @ 100°C

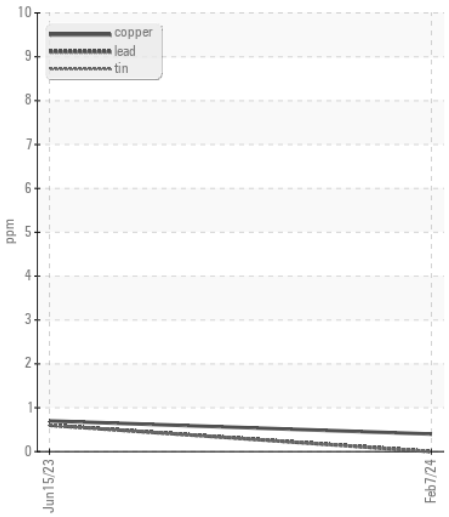
Base Number



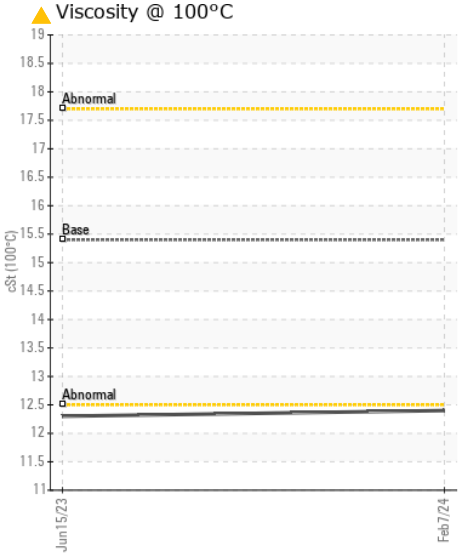
Ferrous Alloys



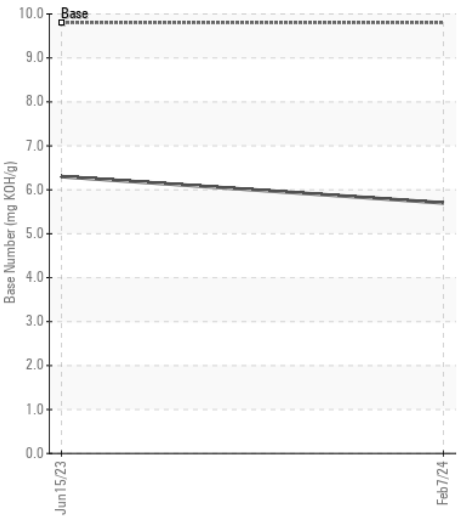
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0110063
Lab Number : 06085765
Unique Number : 10873210
Test Package : FLEET (Additional Tests: PercentFuel)

Received : 12 Feb 2024
Tested : 14 Feb 2024
Diagnosed : 14 Feb 2024 - Wes Davis

Certificate L2367

GFL Environmental - 468 - Dearborn
3051 Schaefer Rd
Dearborn, MI
US 48126
Contact:
T:
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)