FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
517006
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

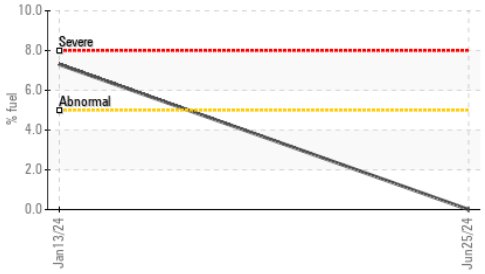
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

FLUID CONDITION

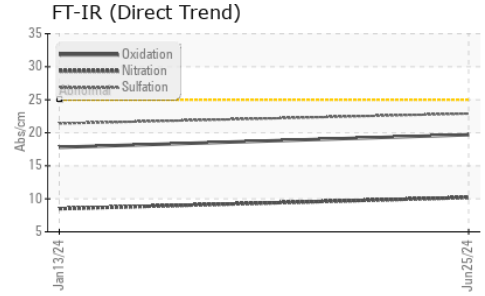
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0114772	GFL0102753	---
Sample Date		Client Info		25 Jun 2024	13 Jan 2024	---
Machine Age	hrs	Client Info		8052	6991	---
Oil Age	hrs	Client Info		1061	6991	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				NORMAL	SEVERE	---
Iron	ppm	ASTM D5185m	>80	31	38	---
Chromium	ppm	ASTM D5185m	>5	4	3	---
Nickel	ppm	ASTM D5185m	>2	1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	<1	0	---
Aluminum	ppm	ASTM D5185m	>30	31	28	---
Lead	ppm	ASTM D5185m	>30	2	<1	---
Copper	ppm	ASTM D5185m	>150	9	21	---
Tin	ppm	ASTM D5185m	>5	1	<1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>20	6	5	---
Potassium	ppm	ASTM D5185m	>20	53	57	---
Fuel	%	ASTM D3524	>5	0.0	▲ 7.3	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.5	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	10.2	8.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.9	21.4	---
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		4	2	---
Boron	ppm	ASTM D5185m	0	7	41	---
Barium	ppm	ASTM D5185m	0	1	0	---
Molybdenum	ppm	ASTM D5185m	60	61	62	---
Manganese	ppm	ASTM D5185m	0	1	<1	---
Magnesium	ppm	ASTM D5185m	1010	731	382	---
Calcium	ppm	ASTM D5185m	1070	1390	1787	---
Phosphorus	ppm	ASTM D5185m	1150	868	1032	---
Zinc	ppm	ASTM D5185m	1270	1159	1261	---
Sulfur	ppm	ASTM D5185m	2060	2474	2893	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.7	17.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.1	6.2	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	▲ 11.5	---

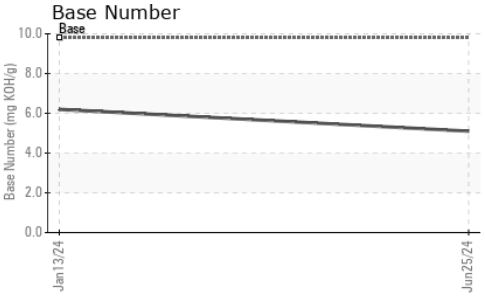
Fuel Dilution



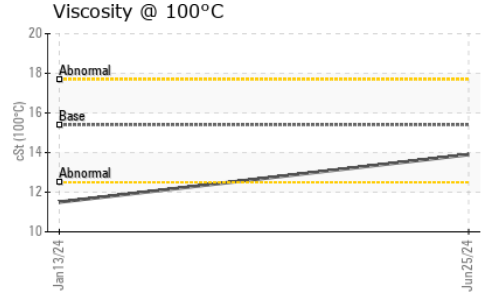
FT-IR (Direct Trend)



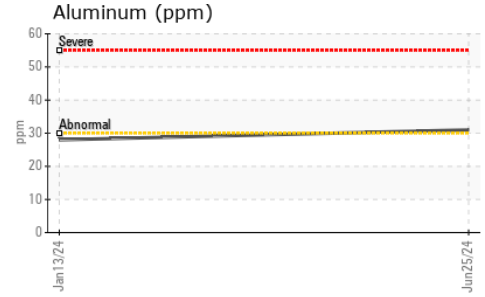
Base Number



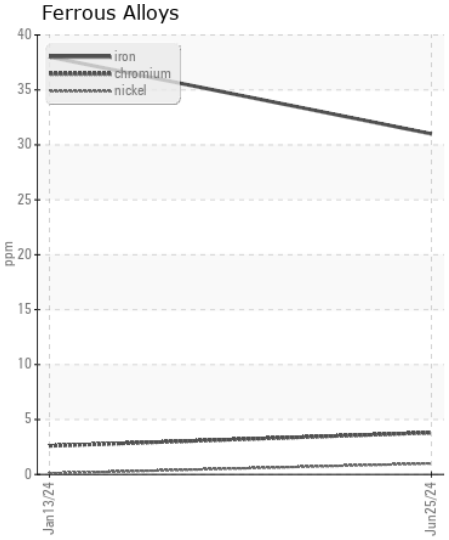
Viscosity @ 100°C



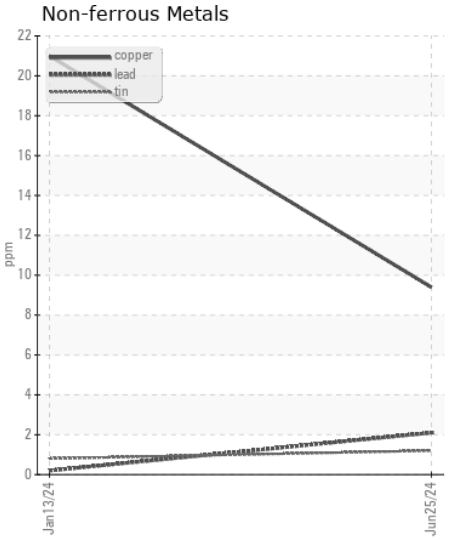
Aluminum (ppm)



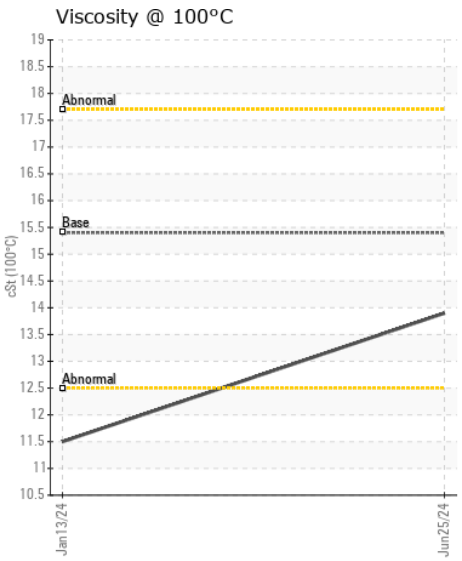
Ferrous Alloys



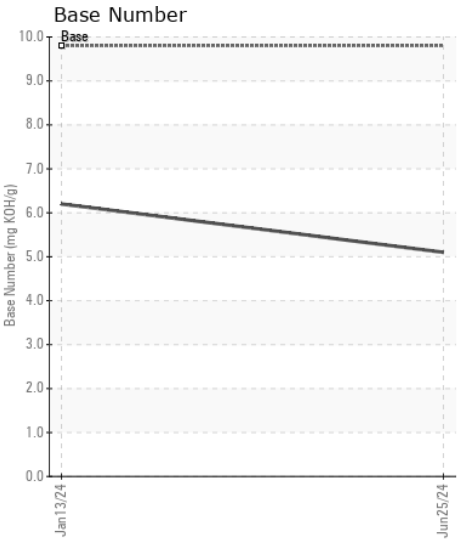
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0114772
Lab Number : 06223129
Unique Number : 11101326
Test Package : FLEET (Additional Tests: PercentFuel)

Received : 28 Jun 2024
Tested : 02 Jul 2024
Diagnosed : 02 Jul 2024 - Wes Davis

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)

GFL Environmental - 963 - Peoria HC Disposal
1113 N. Swords Ave.
West Peoria, IL
US 61604
Contact: Corey Dozard
cdozard@gflenv.com
T:
F: