FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
10858
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (29 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

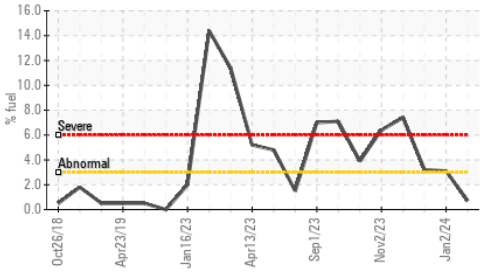
Fuel content negligible. There is no indication of any contamination in the oil.

FLUID CONDITION

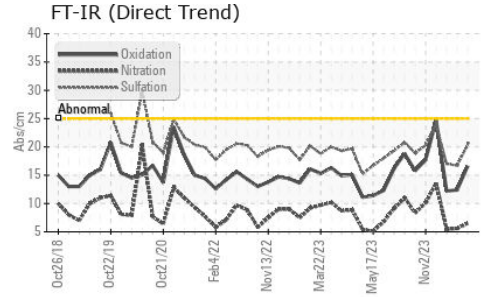
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0115666	GFL0107255	GFL0107248
Sample Date		Client Info		16 Apr 2024	02 Jan 2024	19 Dec 2023
Machine Age	hrs	Client Info		1617	1607	1687
Oil Age	hrs	Client Info		155	155	235
Filter Age	hrs	Client Info		155	155	235
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>75	8	▲ 86	▲ 178
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	2	▲ 36	▲ 44
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	<1	29	37
Tin	ppm	ASTM D5185m	>4	<1	8	10
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	12	10	11
Potassium	ppm	ASTM D5185m	>20	0	14	16
Fuel	%	ASTM D3524	>3.0	0.7	▲ 3.1	▲ 3.2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	0.2	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.5	5.6	5.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	16.7	17.0
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		4	● 167	● 177
Boron	ppm	ASTM D5185m	0	49	12	9
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	49	59	59
Manganese	ppm	ASTM D5185m	0	2	3	4
Magnesium	ppm	ASTM D5185m	1010	721	830	812
Calcium	ppm	ASTM D5185m	1070	1141	940	948
Phosphorus	ppm	ASTM D5185m	1150	684	934	909
Zinc	ppm	ASTM D5185m	1270	812	1053	1054
Sulfur	ppm	ASTM D5185m	2060	2455	2649	2782
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	12.4	12.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.8	8.4	8.4
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	▲ 12.2	▲ 12.1

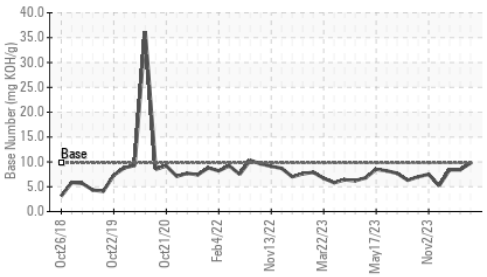
Fuel Dilution



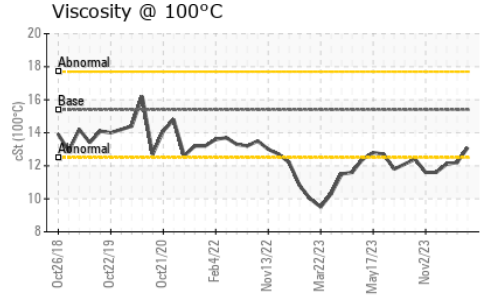
FT-IR (Direct Trend)



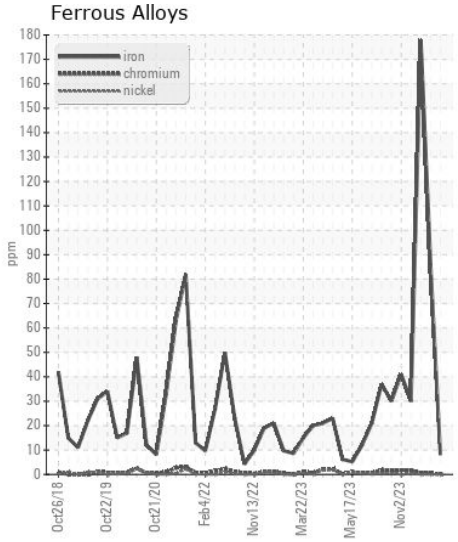
Base Number



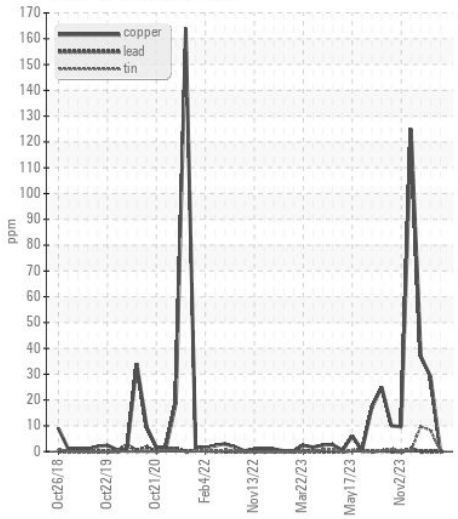
Viscosity @ 100°C



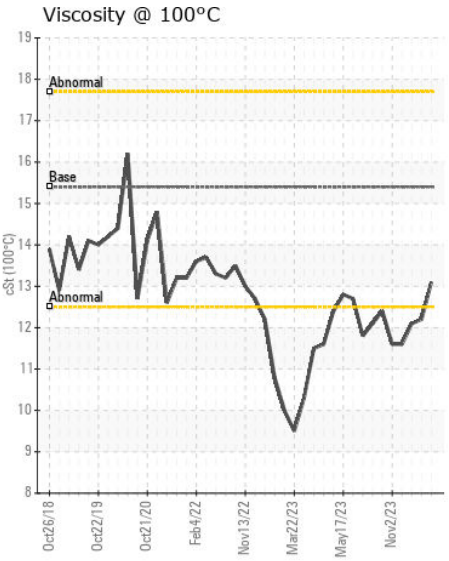
Ferrous Alloys



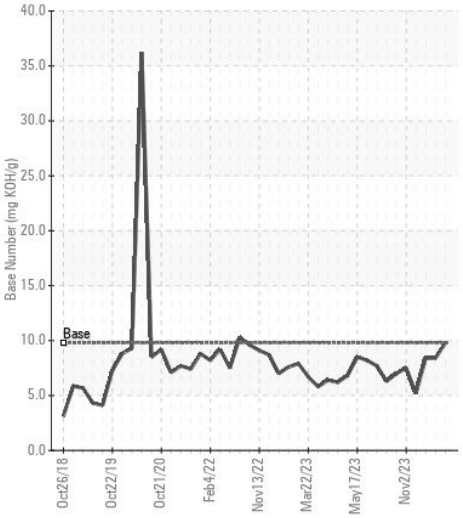
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0115666
Lab Number : 06151493
Unique Number : 10981571
Test Package : FLEET (Additional Tests: PercentFuel)

Received : 17 Apr 2024
Tested : 22 Apr 2024
Diagnosed : 22 Apr 2024 - Sean Felton

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 - 010 - Stockbridge
1280 Rum Creek Parkway
Stockbridge, GA
US 30281
Contact: JOSHUA TINKER
joshuatinker@gflenv.com
T:
F: