FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
929078-205275
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

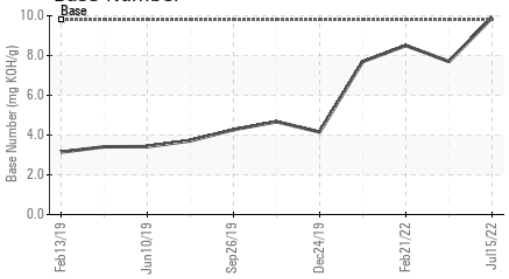
There is no indication of any contamination in the oil.

FLUID CONDITION

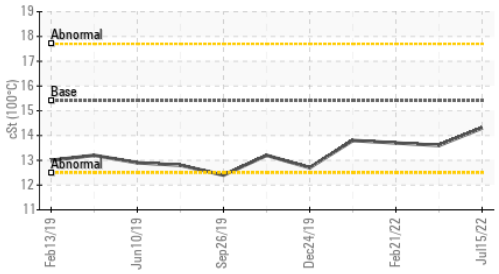
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**GFL0046862**	GFL0046845	GFL0046838
Sample Date		Client Info		**15 Jul 2022**	22 Apr 2022	21 Feb 2022
Machine Age	hrs	Client Info		**11079**	10347	9815
Oil Age	hrs	Client Info		**0**	532	1231
Filter Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	**3**	9	8
Chromium	ppm	ASTM D5185m	>20	**0**	<1	0
Nickel	ppm	ASTM D5185m	>4	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m	>3	**<1**	0	0
Aluminum	ppm	ASTM D5185m	>20	**<1**	1	0
Lead	ppm	ASTM D5185m	>40	**2**	3	2
Copper	ppm	ASTM D5185m	>330	**<1**	1	1
Tin	ppm	ASTM D5185m	>15	**<1**	<1	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	**2**	4	2
Potassium	ppm	ASTM D5185m	>20	**<1**	0	<1
Fuel		WC Method	>5	**<1.0**	<1.0	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	*ASTM D7844	>3	**0.1**	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	**6.7**	8.0	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	**19.8**	19.9	21.3
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		**2**	2	0
Boron	ppm	ASTM D5185m	0	**8**	3	5
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	60	**63**	62	57
Manganese	ppm	ASTM D5185m	0	**0**	<1	0
Magnesium	ppm	ASTM D5185m	1010	**923**	996	789
Calcium	ppm	ASTM D5185m	1070	**1077**	1145	987
Phosphorus	ppm	ASTM D5185m	1150	**1001**	1066	902
Zinc	ppm	ASTM D5185m	1270	**1211**	1263	1128
Sulfur	ppm	ASTM D5185m	2060	**3655**	2672	1524
Oxidation	Abs/.1mm	*ASTM D7414	>25	**15.4**	15.6	17.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	**9.9**	7.7	8.5
Visc @ 100°C	cSt	ASTM D445	15.4	**14.3**	13.6	13.7

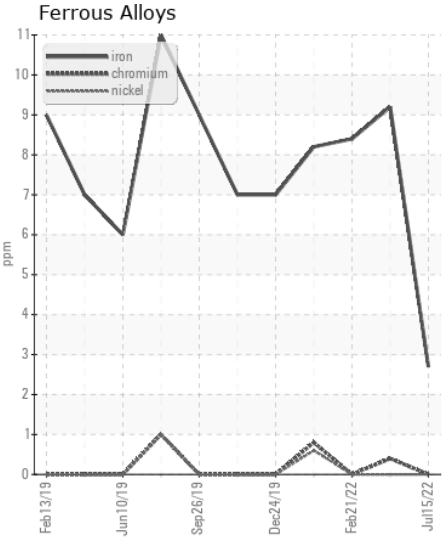
Base Number



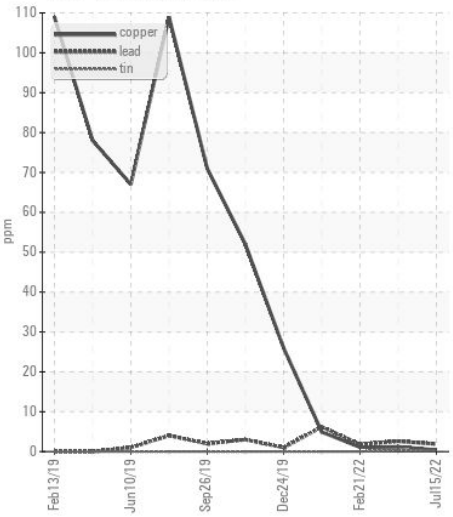
Viscosity @ 100°C



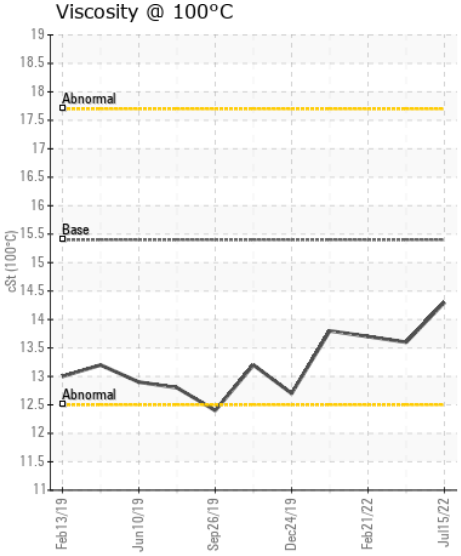
Ferrous Alloys



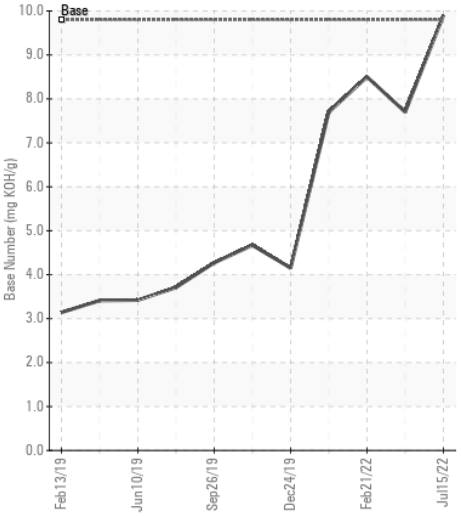
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0046862
Lab Number : 05598669
Unique Number : 10063149
Test Package : FLEET

Recieved : 22 Jul 2022
Diagnosed : 25 Jul 2022
Diagnostician : 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 - 814 - Little Rock Hauling
4005 Hwy 161 N.
LIttle Rock, AR
US 72117
Contact: Brad Koenig
bkoenig@gflenv.com
T:
F: