FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ABNORMAL

Machine Id
10982
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (8 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

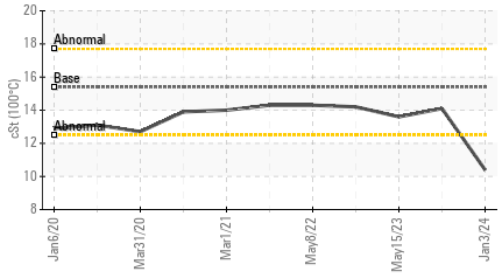
Light fuel dilution occurring.

FLUID CONDITION

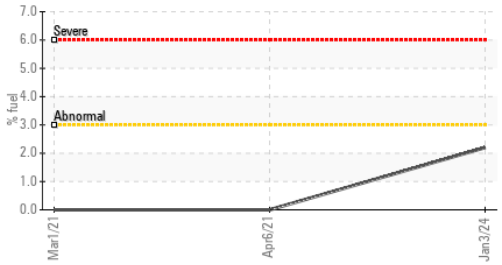
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**GFL0058871**	GFL0072412	GFL0072408
Sample Date		Client Info		**03 Jan 2024**	07 Sep 2023	15 May 2023
Machine Age	hrs	Client Info		**4880**	4880	0
Oil Age	hrs	Client Info		**4880**	4880	0
Filter Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Filter Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ATTENTION	NORMAL
Iron	ppm	ASTM D5185m	>90	**13**	18	6
Chromium	ppm	ASTM D5185m	>20	**<1**	<1	0
Nickel	ppm	ASTM D5185m	>2	**<1**	0	0
Titanium	ppm	ASTM D5185m	>2	**<1**	0	<1
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**2**	<1	<1
Lead	ppm	ASTM D5185m	>40	**<1**	<1	0
Copper	ppm	ASTM D5185m	>330	**1**	2	<1
Tin	ppm	ASTM D5185m	>15	**<1**	<1	0
Vanadium	ppm	ASTM D5185m		**0**	<1	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	**4**	6	4
Potassium	ppm	ASTM D5185m	>20	**2**	▲ 44	1
Fuel	%	ASTM D3524	>3.0	▲ **2.2**	<1.0	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	*ASTM D7844	>6	**0.4**	0.8	0.3
Nitration	Abs/cm	*ASTM D7624	>20	**9.3**	8.7	6.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	**19.1**	19.9	18.5
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**	37	3
Boron	ppm	ASTM D5185m	0	**7**	3	5
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	60	**52**	61	56
Manganese	ppm	ASTM D5185m	0	**<1**	<1	0
Magnesium	ppm	ASTM D5185m	1010	**790**	1023	914
Calcium	ppm	ASTM D5185m	1070	**939**	1345	1192
Phosphorus	ppm	ASTM D5185m	1150	**751**	1086	1007
Zinc	ppm	ASTM D5185m	1270	**1066**	1345	1245
Sulfur	ppm	ASTM D5185m	2060	**2533**	3850	3542
Oxidation	Abs/.1mm	*ASTM D7414	>25	**16.6**	15.4	14.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	**6.9**	8.4	9.2
Visc @ 100°C	cSt	ASTM D445	15.4	▲ **10.4**	14.1	13.6

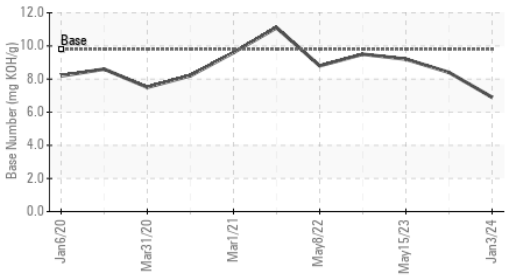
Viscosity @ 100°C



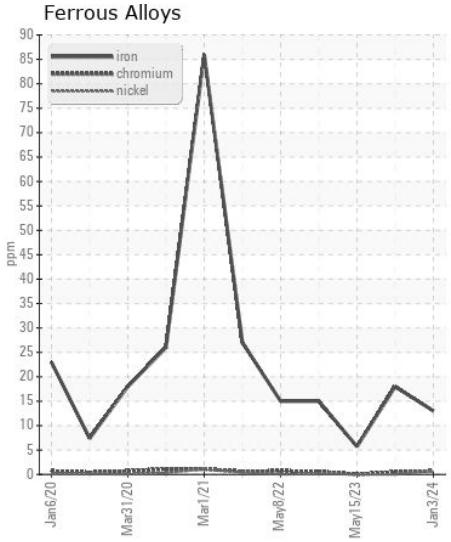
Fuel Dilution



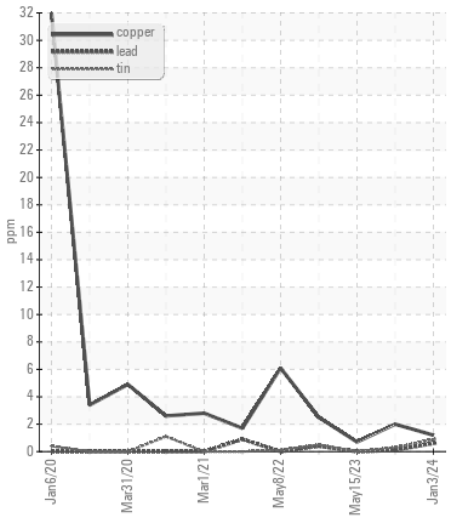
Base Number



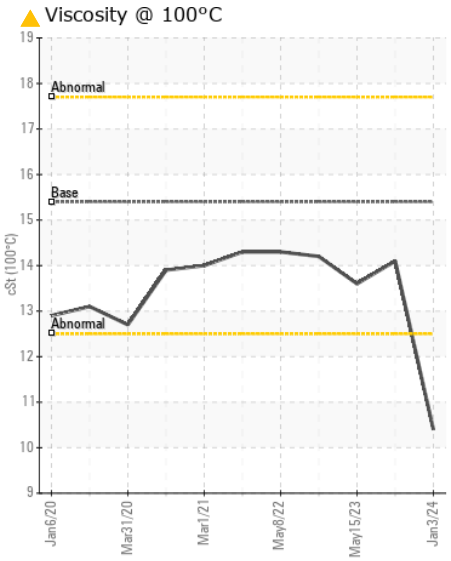
Ferrous Alloys



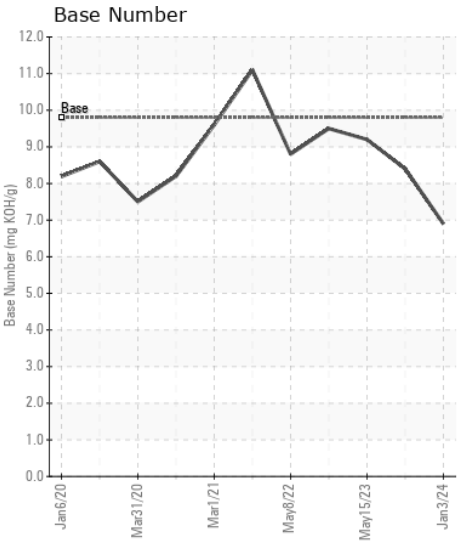
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0058871 **Recieved** : 09 Jan 2024
Lab Number : 06055214 **Diagnosed** : 11 Jan 2024
Unique Number : 10821163 **Diagnostician** : Sean Felton
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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 - 119 - Williamston Hauling/TriEast
1805 West Main Street
Williamston, NC
US 27892
Contact: Spencer Liggon
spencer.liggon@gflenv.com
T: (800)207-6618
F: