FLEET LUBE 360™ OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Machine Id
376M
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

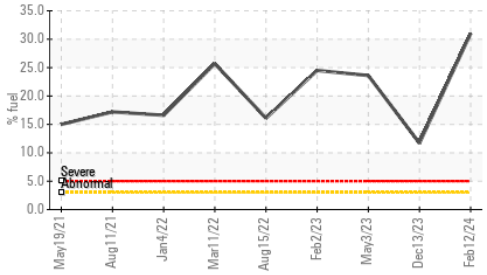
There is a high amount of fuel present in the oil.

FLUID CONDITION

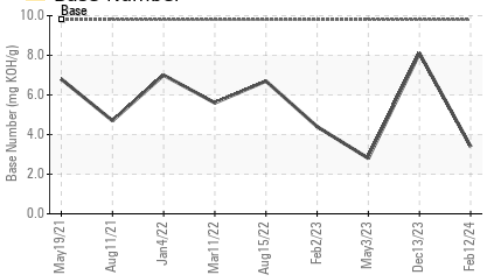
Fuel is present in the oil and is lowering the viscosity. The BN level is low. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**GFL0108936**	GFL0105767	GFL0073888
Sample Date		Client Info		**12 Feb 2024**	13 Dec 2023	03 May 2023
Machine Age	hrs	Client Info		**14911**	14414	13210
Oil Age	hrs	Client Info		**14414**	13210	10622
Filter Age	hrs	Client Info		**0**	13210	10622
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**SEVERE**	SEVERE	SEVERE
Iron	ppm	ASTM D5185m	>120	**12**	3	14
Chromium	ppm	ASTM D5185m	>20	**<1**	0	1
Nickel	ppm	ASTM D5185m	>5	**0**	0	0
Titanium	ppm	ASTM D5185m	>2	**0**	0	0
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**1**	2	0
Lead	ppm	ASTM D5185m	>40	**0**	<1	<1
Copper	ppm	ASTM D5185m	>330	**2**	1	1
Tin	ppm	ASTM D5185m	>15	**<1**	0	<1
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	**3**	4	8
Potassium	ppm	ASTM D5185m	>20	**0**	<1	1
Fuel	%	ASTM D3524	>3.0	**31.0**	11.7	23.6
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	*ASTM D7844	>4	**0.4**	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	**14.5**	7.0	10.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	**23.4**	18.0	20.7
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		**5**	1	4
Boron	ppm	ASTM D5185m	0	**0**	<1	0
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	60	**34**	47	45
Manganese	ppm	ASTM D5185m	0	**<1**	0	<1
Magnesium	ppm	ASTM D5185m	1010	**508**	884	643
Calcium	ppm	ASTM D5185m	1070	**619**	1041	777
Phosphorus	ppm	ASTM D5185m	1150	**577**	971	717
Zinc	ppm	ASTM D5185m	1270	**636**	1086	883
Sulfur	ppm	ASTM D5185m	2060	**1452**	2746	1914
Oxidation	Abs/.1mm	*ASTM D7414	>25	**25.4**	14.2	21.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	**3.4**	8.1	2.8
Visc @ 100°C	cSt	ASTM D445	15.4	**7.4**	11.2	8.3

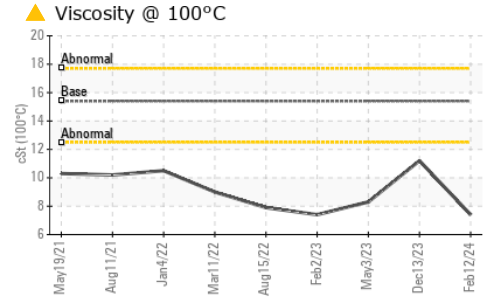
Fuel Dilution



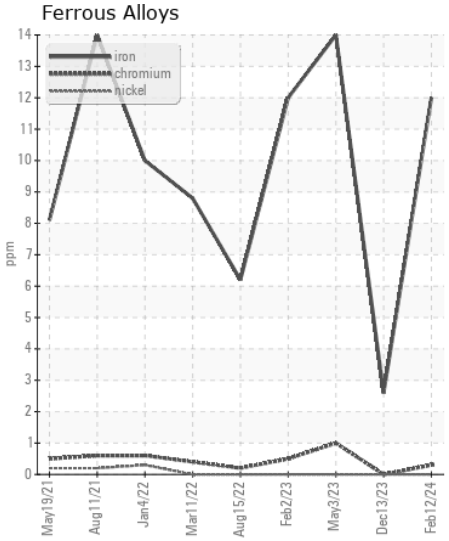
Base Number



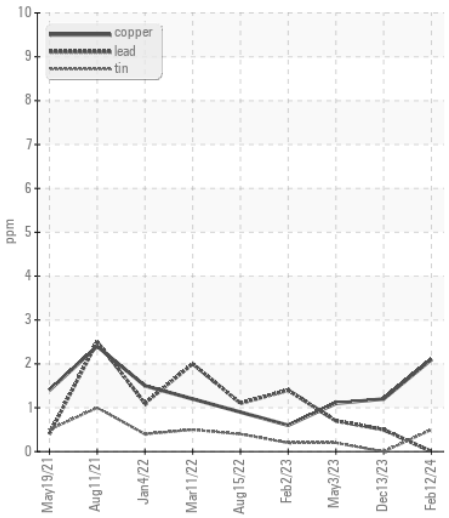
Viscosity @ 100°C



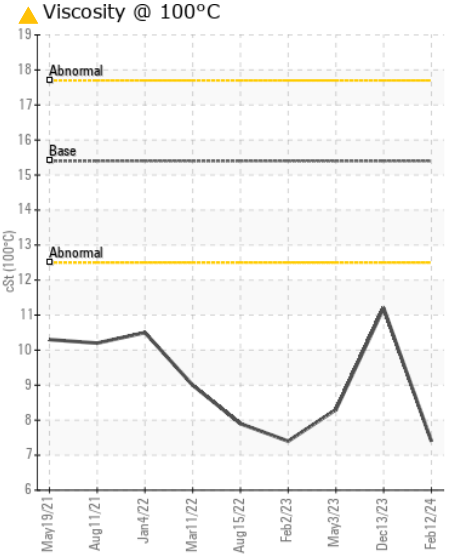
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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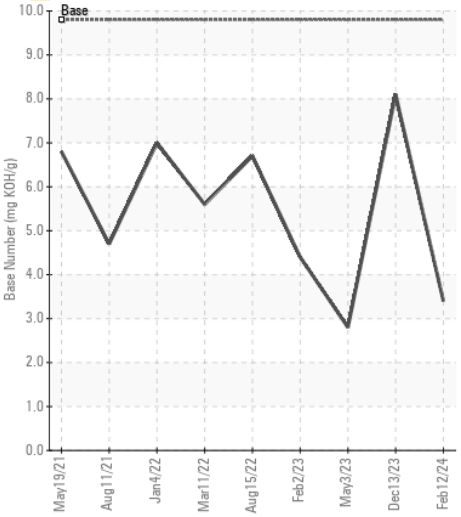

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0108936
Lab Number : 06098178
Unique Number : 10896408
Test Package : FLEET (Additional Tests: PercentFuel)

Received : 23 Feb 2024
Tested : 27 Feb 2024
Diagnosed : 27 Feb 2024 - Jonathan Hester

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)

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