FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	SEVERE

Area
(DJT517)
Machine Id
10523
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

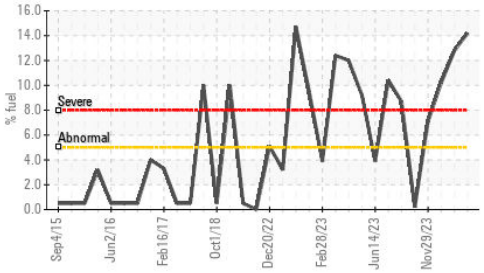
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

FLUID CONDITION

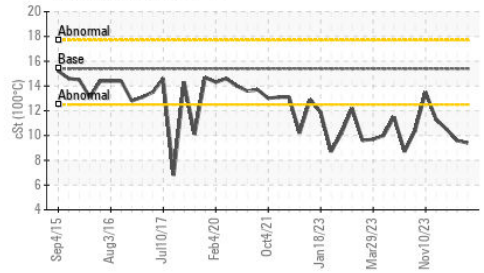
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**GFL0109952**	GFL0109864	GFL0107252
Sample Date		Client Info		**09 Feb 2024**	12 Jan 2024	18 Dec 2023
Machine Age	hrs	Client Info		**23974**	23835	23692
Oil Age	hrs	Client Info		**567**	428	285
Filter Age	hrs	Client Info		**567**	428	285
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Filter Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**SEVERE**	SEVERE	SEVERE
Iron	ppm	ASTM D5185m	>100	**21**	15	7
Chromium	ppm	ASTM D5185m	>20	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>4	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	<1
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**2**	2	<1
Lead	ppm	ASTM D5185m	>40	**0**	0	0
Copper	ppm	ASTM D5185m	>330	**1**	2	1
Tin	ppm	ASTM D5185m	>15	**0**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	<1
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	**9**	6	5
Potassium	ppm	ASTM D5185m	>20	**0**	2	<1
Fuel	%	ASTM D3524	>5	**14.2**	12.8	10.2
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	*ASTM D7844	>3	**0.7**	0.6	0.4
Nitration	Abs/cm	*ASTM D7624	>20	**11.0**	10.0	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	**21.1**	19.3	18.2
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	3
Boron	ppm	ASTM D5185m	0	**3**	2	2
Barium	ppm	ASTM D5185m	0	**0**	3	0
Molybdenum	ppm	ASTM D5185m	60	**48**	50	52
Manganese	ppm	ASTM D5185m	0	**<1**	0	<1
Magnesium	ppm	ASTM D5185m	1010	**713**	748	770
Calcium	ppm	ASTM D5185m	1070	**831**	865	892
Phosphorus	ppm	ASTM D5185m	1150	**778**	804	872
Zinc	ppm	ASTM D5185m	1270	**937**	971	1024
Sulfur	ppm	ASTM D5185m	2060	**2191**	2709	2562
Oxidation	Abs/.1mm	*ASTM D7414	>25	**18.3**	16.0	14.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	**4.4**	5.6	6.6
Visc @ 100°C	cSt	ASTM D445	15.4	**9.4**	9.6	10.5

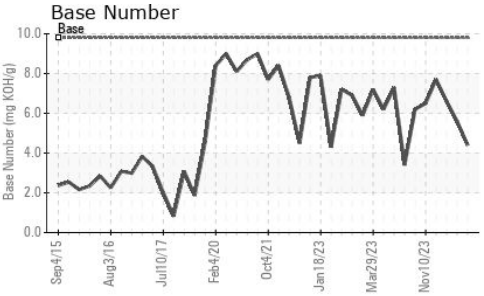
Fuel Dilution



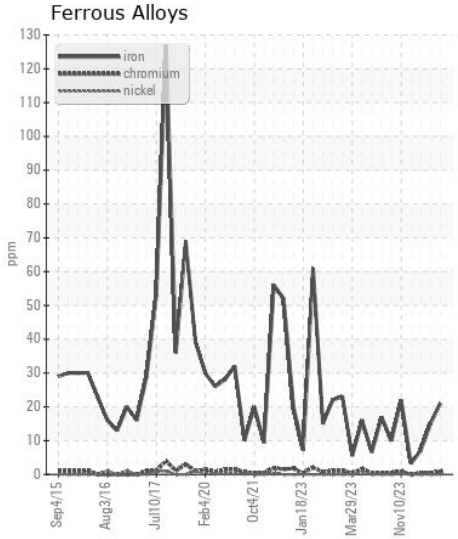
Viscosity @ 100°C



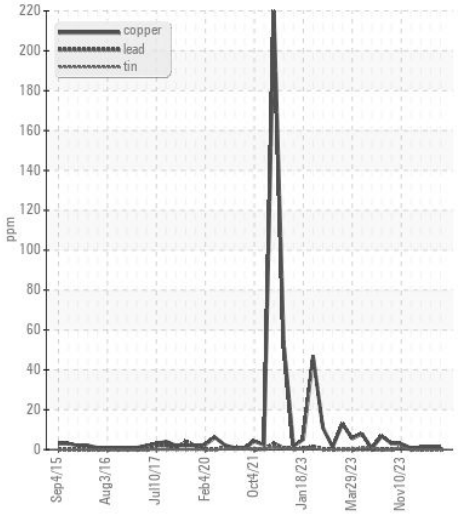
Base Number



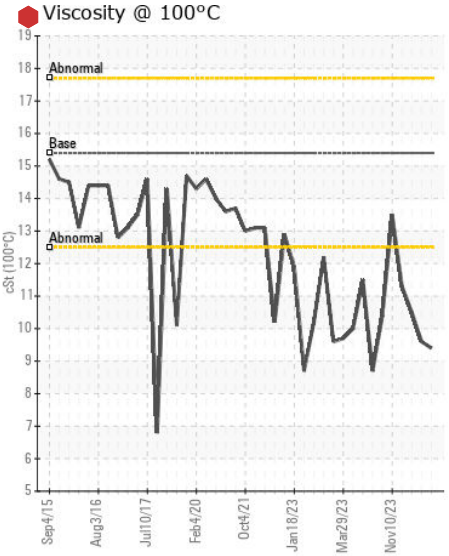
Ferrous Alloys



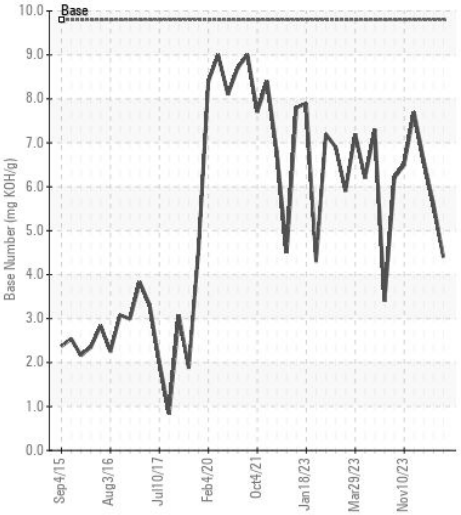
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0109952
Lab Number : 06085779
Unique Number : 10873224
Test Package : FLEET (Additional Tests: PercentFuel)

Received : 12 Feb 2024
Tested : 14 Feb 2024
Diagnosed : 14 Feb 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 - 010 - Stockbridge
1280 Rum Creek Parkway
Stockbridge, GA
US 30281
Contact: JOSHUA TINKER
joshuatinker@gflenv.com
T:
F: