



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
3514C
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON GEO LD 15W40 (11 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0092683	GFL0072423	GFL0072389
Sample Date		Client Info		04 Jan 2024	08 Jun 2023	24 Jan 2023
Machine Age	hrs	Client Info		45115	45115	44965
Oil Age	hrs	Client Info		609	54115	44965
Filter Age	hrs	Client Info		609	54115	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	13	48	40
Chromium	ppm	ASTM D5185m	>4	1	4	3
Nickel	ppm	ASTM D5185m	>2	1	1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	8	5
Lead	ppm	ASTM D5185m	>30	<1	4	5
Copper	ppm	ASTM D5185m	>35	33	33	9
Tin	ppm	ASTM D5185m	>4	1	2	1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

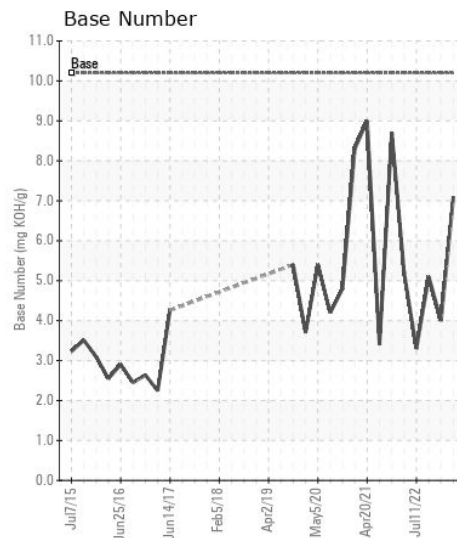
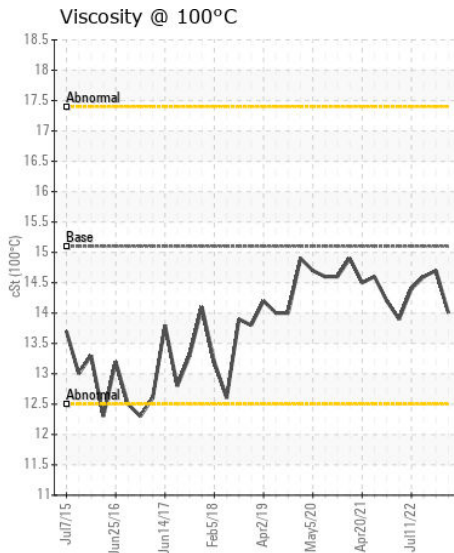
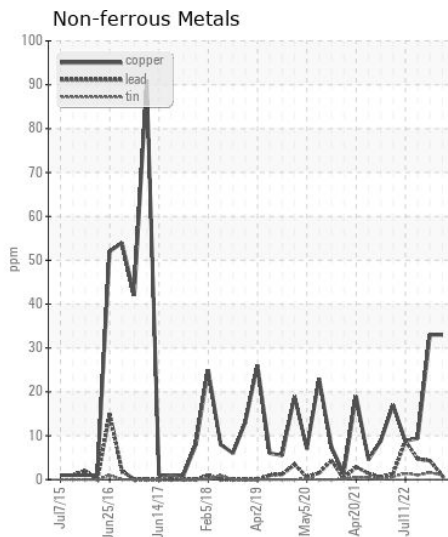
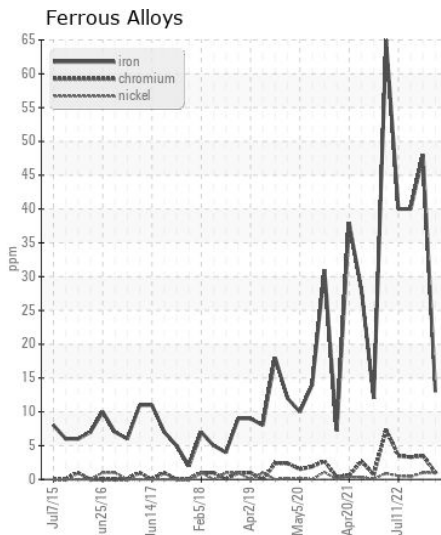
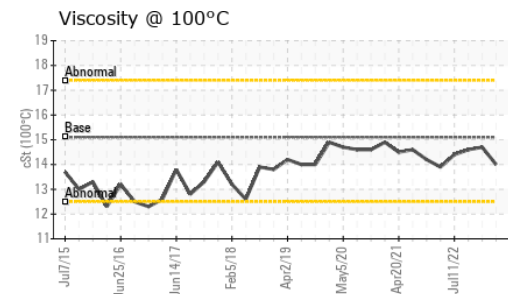
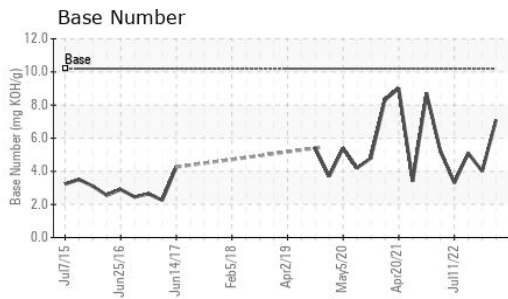
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	5	9	7
Potassium	ppm	ASTM D5185m	>20	3	4	2
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.2	12.6	11.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	26.8	26.4
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	>0.1	NEG	NEG	NEG

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.

Sodium	ppm	ASTM D5185m		2	15	8
Boron	ppm	ASTM D5185m	50	7	9	13
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	60	66	62
Manganese	ppm	ASTM D5185m	0	<1	2	1
Magnesium	ppm	ASTM D5185m	560	849	788	720
Calcium	ppm	ASTM D5185m	1510	1231	1879	1641
Phosphorus	ppm	ASTM D5185m	780	864	891	865
Zinc	ppm	ASTM D5185m	870	1158	1282	1096
Sulfur	ppm	ASTM D5185m	2040	3136	3304	3106
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	22.5	20.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	7.1	4.0	5.1
Visc @ 100°C	cSt	ASTM D445	15.1	14.0	14.7	14.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0092683 **Received** : 09 Jan 2024
Lab Number : 06055204 **Diagnosed** : 10 Jan 2024
Unique Number : 10821153 **Diagnostician** : Wes Davis
Test Package : FLEET

GFL Environmental - 005 - Wilson/Tri-East(CNG)
 2810 Contentnea Road S
 Wilson, NC
 US 27893-8501
 Contact: SPENCER LIGGON
 spencer.liggon@gflenv.com
 T: (800)207-6618
 F:

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)