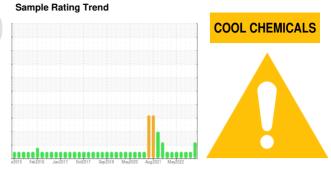


# **OIL ANALYSIS REPORT**

(Vin) 10503C Autocar ACX64

**Natural Gas Engine** 

PETRO CANADA DURON GEO LD 15W40 (28 QTS)



### **DIAGNOSIS**

### Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### Contamination

Sodium and/or potassium levels are high. Test for glycol is negative.

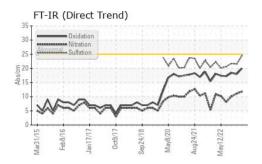
#### **Fluid Condition**

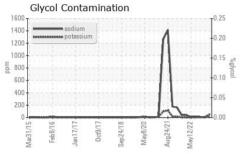
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

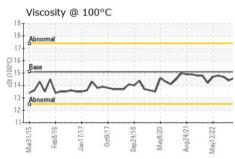
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117465	GFL0103237	GFL0089345
Sample Date		Client Info		24 Jun 2024	29 Dec 2023	20 Jul 2023
Machine Age	hrs	Client Info		9207	8061	7241
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	21	13	15
Chromium	ppm	ASTM D5185m	>4	2	1	2
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	5	2	5
Lead	ppm	ASTM D5185m	>30	2	0	0
Copper	ppm	ASTM D5185m	>35	2	0	10
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	4	<1	15
Barium	ppm	ASTM D5185m	5	0	4	0
Molybdenum	ppm	ASTM D5185m	50	53	48	54
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	560	580	498	585
Calcium	ppm	ASTM D5185m	1510	1644	1468	1707
Phosphorus	ppm	ASTM D5185m	780	742	707	797
Zinc	ppm	ASTM D5185m	870	1031	902	977
Sulfur	ppm	ASTM D5185m	2040	2764	2529	2928
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	16	0	6
Sodium	ppm	ASTM D5185m		22	3	10
Potassium	ppm	ASTM D5185m	>20	▲ 50	8	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	11.8	11.1	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.5	21.5	21.7
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0	18.0	18.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	3.2	3.8	5.8

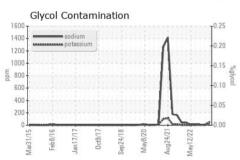


## **OIL ANALYSIS REPORT**









VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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
<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

limit/base

current

14.6

history1

14.4

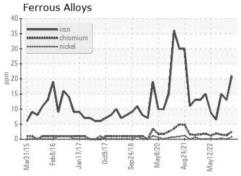
history2

14.7

Visc @ 100°C	cSt

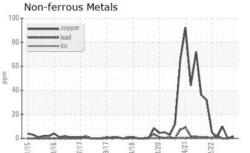
**FLUID PROPERTIES** 

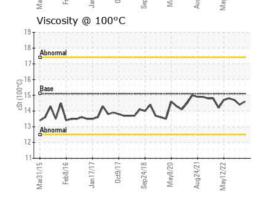
# **GRAPHS**

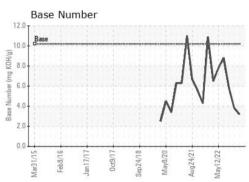


method

ASTM D445 15.1











Certificate 12367

Laboratory Sample No.

: GFL0117465 Lab Number : 06221997 Unique Number : 11100194

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

: 27 Jun 2024 : 01 Jul 2024 Diagnosed

: 01 Jul 2024 - Jonathan Hester

3741 Conquest Drive

Contact: Craig Johnson craig.johnson@gflenv.com T: (919)662-7100

Test Package : FLEET ( Additional Tests: Glycol ) 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) F: (919)662-7130

Report Id: GFL001 [WUSCAR] 06221997 (Generated: 07/02/2024 03:51:31) Rev: 1

GFL Environmental - 001 - Raleigh(CNG)

Garner, NC

US 27529