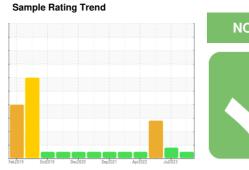


# **OIL ANALYSIS REPORT**

(YA144057) 3798C

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (46 GAL)





# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

# **Fluid Condition**

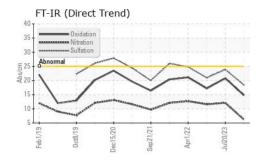
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

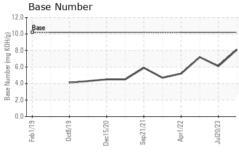
(46 GAL)		Feb2019	Oct2019 Dec2020	Sep2021 Apr2022 Ji	ul2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090016	GFL0080600	GFL0066790
Sample Date		Client Info		04 Apr 2024	20 Jul 2023	04 Jan 2023
Machine Age	hrs	Client Info		11795	11795	11795
Oil Age	hrs	Client Info		0	11795	11795
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAI	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	4	48	42
Chromium	ppm	ASTM D5185m	>4	<1	3	2
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	<u>12</u>	5
Lead	ppm	ASTM D5185m	>30	<1	0	1
Copper	ppm	ASTM D5185m	>35	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	48	17	20
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	49	73	58
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	560	519	757	598
Calcium	ppm	ASTM D5185m	1510	1391	2198	1734
Phosphorus	ppm	ASTM D5185m	780	745	927	774
Zinc	ppm	ASTM D5185m	870	907	1269	1023
Sulfur	ppm	ASTM D5185m	2040	2483	3189	2932
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	6	19	9
Sodium	ppm	ASTM D5185m		3	39	81
Potassium	ppm	ASTM D5185m	>20	2	<1	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.2	12.1	11.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	23.9	21
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	20.8	17.2
		ACTM DOOG		0.1		7.0

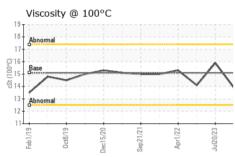
Base Number (BN) mg KOH/g ASTM D2896 10.2 8.1

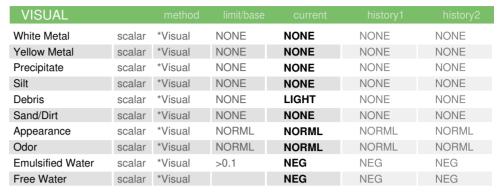


# **OIL ANALYSIS REPORT**



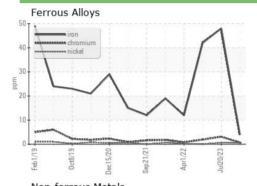


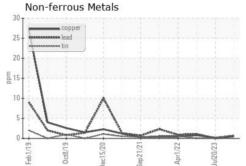


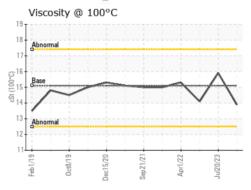


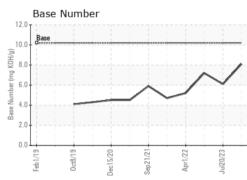
FLUID PROP	EKIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.1	13.9	15.9	14.1

## **GRAPHS**













Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0090016 Lab Number : 06139479

Unique Number : 10964287 Test Package : FLEET

Received : 05 Apr 2024 **Tested** : 05 Apr 2024 Diagnosed

: 05 Apr 2024 - Wes Davis

GFL Environmental - 018 - Fayetteville

4621 Marracco Drive Hope Mills, NC US 28348

Contact: Robert Carter robert.carter@gflenv.com T: (910)596-1170

Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - 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)

Report Id: GFL018 [WUSCAR] 06139479 (Generated: 04/05/2024 16:36:08) Rev: 1

Submitted By: CHRIS HALL