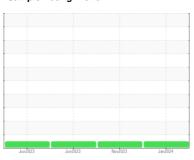


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **834003** 

Component **Natural Gas Engine** 

PETRO CANADA DURON SHP 15W40 (--- QTS)

### DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

#### **Fluid Condition**

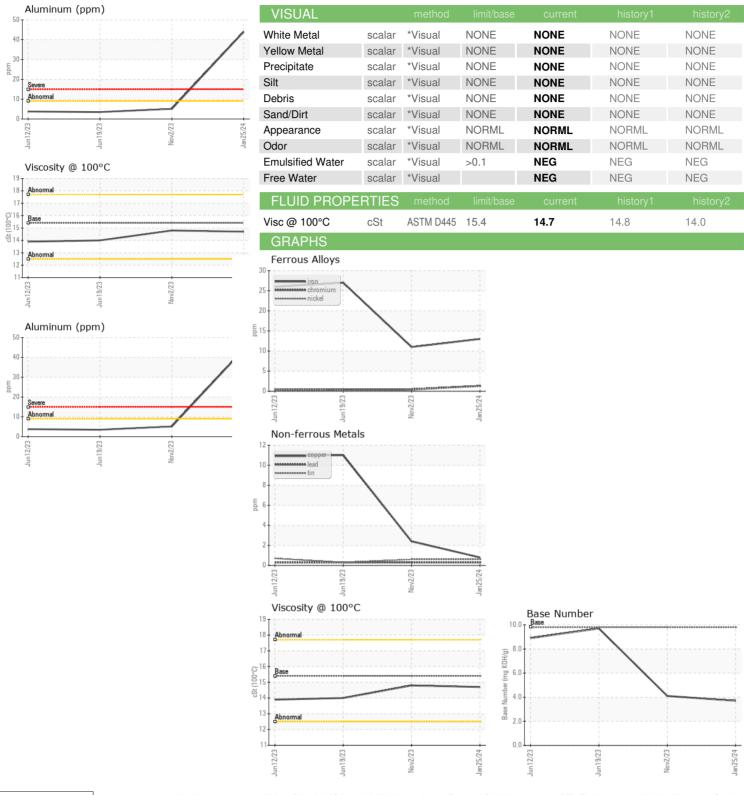
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

TS)		Jun202	3 Jun2023	Nov2023 Ji	n2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092169	GFL0084640	GFL0084756
Sample Date		Client Info		25 Jan 2024	02 Nov 2023	19 Jun 2023
Machine Age	hrs	Client Info		1853	1210	36
Oil Age	hrs	Client Info		600	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	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	13	11	27
Chromium	ppm	ASTM D5185m	>4	1	<1	<1
Nickel	ppm	ASTM D5185m	>2	1	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	44	5	4
Lead	ppm	ASTM D5185m	>30	<1	<1	<1
Copper	ppm	ASTM D5185m	>35	<1	2	11
Γin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	8	8	56
Barium	ppm	ASTM D5185m	0	0	0	1
Molybdenum	ppm	ASTM D5185m	60	51	53	51
Manganese	ppm	ASTM D5185m	0	1	2	13
Magnesium	ppm	ASTM D5185m	1010	533	663	797
Calcium	ppm	ASTM D5185m	1070	1495	1533	1206
Phosphorus	ppm	ASTM D5185m	1150	641	708	749
Zinc	ppm	ASTM D5185m	1270	929	1062	904
Sulfur	ppm	ASTM D5185m	2060	2345	2609	2895
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	5	8	31
Sodium	ppm	ASTM D5185m		6	6	4
Potassium	ppm	ASTM D5185m	>20	166	27	20
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	11.0	10.7	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	22.1	20.2
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	18.8	16.7
Page Number (PNI)		ACTM DOOGS	0.0	2.7	4 1	0.7

Base Number (BN) mg KOH/g ASTM D2896 9.8 3.7



## **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number **Unique Number** 

: GFL0092169 : 06074434 : 10856525 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 30 Jan 2024 Recieved Diagnosed : 31 Jan 2024

: Sean Felton Diagnostician

GFL Environmental - 856 - Houston South

8515 Highway 6 South Houston, TX US 77083

Contact: Jose Gonzalez

jgonzalez2@gflenv.com T:

\* - 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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