

30 AL

20

10-

0.

Jul21/22

May10/23

RECOMMENDATION

Abnormal

30

20

10

0

/22

Jul21

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Dec12/22

Feb3/23

Feb24/23

Mar13/23

PROBLEMATIO	ATIC TEST RESULTS					
Sample Status				SEVERE	NORMAL	NORMAL
Aluminum	ppm	ASTM D5185m	>20	• 79	4	3
Silicon	ppm	ASTM D5185m	>25	A 37	7	6

Dec12/22

Feb3/23

Feb24/23

Mar13/23

/ay10/23

Customer Id: GFL867 Sample No.: GFL0045438 Lab Number: 05848480 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Inspect Wear Source	MISSED	Jun 07 2023	?	We advise that you inspect for the source(s) of wear.			
Resample	MISSED	Jun 07 2023	?	We recommend an early resample to monitor this condition.			
Check Dirt Access	MISSED	Jun 07 2023	?	We advise that you check the air filter, air induction system, and any areas where dirt may enter the component.			

HISTORICAL DIAGNOSIS



13 Mar 2023 Diag: Wes Davis

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



view report



24 Feb 2023 Diag: Wes Davis

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.







OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 427083-402340 Component

Diesel Engine

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

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

🛑 Wear

The aluminum level is severe. Piston wear is indicated.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0045438	GFL0045423	GFL0045409
Sample Date		Client Info		10 May 2023	13 Mar 2023	24 Feb 2023
Machine Age	hrs	Client Info		16719	16303	16236
Oil Age	hrs	Client Info		16719	0	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				SEVERE	NORMAL	NORMAL
		mathad	limit/bases	ourropt	historut	biotor / O
		method		current	nistory i	nistory2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	41	5	4
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	• 79	4	3
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	3	<1	0
Tin	maa	ASTM D5185m	>15	<1	<1	0
Vanadium	maa	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	historv1	history2
Boron	nnm	ASTM D5185m	0	10	152	168
Barium	nnm	ASTM D5185m	0	0	0	0
Molybdenum	nom	ASTM D5185m	60	59	77	81
Manganese	nnm	ASTM D5185m	0	~1	1	<1
Manganesium	nom	ASTM D5185m	1010	013	676	688
Calcium	nnm	ASTM D5185m	1070	1117	1235	1303
Phoenhorue	ppm	ASTM D5185m	1150	0/17	810	852
Zinc	ppm	ASTM D5185m	1270	1215	1071	1082
Sulfur	ppm	ASTM D5185m	2060	2020	2022	3039
	то	ASTIN DS105III	2000	3009		0000
CONTAMINAN	IS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<mark>/</mark> 37	7	6
Sodium	ppm	ASTM D5185m		5	2	1
Potassium	ppm	ASTM D5185m	>20	2	2	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.8	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.6	8.2	6.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	19.2	19.7
FLUID DEGRA	DAT <u>IO</u> N	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	13.3	13.9
Base Number (BN)	ma KOH/a	ASTM D2896	9.8	8.2	9.3	8.0
			5.0		0.0	0.0



OIL ANALYSIS REPORT



Submitted By: see also GFL868 - Chelsea Bryan