

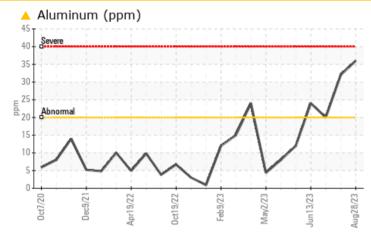
PROBLEM SUMMARY

Sample Rating Trend WEAR

Machine Id 728007

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (12 QTS)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	NORMAL		
Aluminum	ppm	ASTM D5185m	>20	<u> </u>	A 32	20		

Customer Id: GFL010 Sample No.: GFL0091451 Lab Number: 05938588 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Sean Felton +1 919-379-4092 sfelton@wearcheckusa.com

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

16 Aug 2023 Diag: Don Baldridge



No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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.





12 Jul 2023 Diag: Don Baldridge

Resample at the next service interval to monitor.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.

13 Jun 2023 Diag: Angela Borella



Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.Aluminum ppm levels are abnormal. Piston wear is indicated. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil.





view report

Report Id: GFL010 [WUSCAR] 05938588 (Generated: 08/31/2023 16:12:20) Rev: 1



OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Machine Id 728007

Component

Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (12 QTS

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

A Wear

The aluminum level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

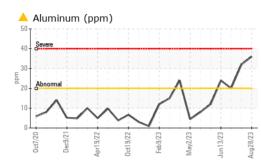
Fluid Condition

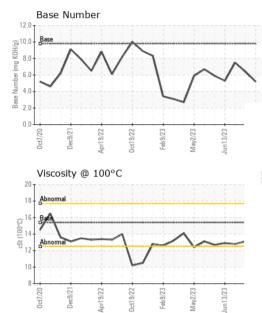
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

TS)		ct2020 Dec	2021 Apr2022 Oct20.	2 Feb2023 May2023 Jun20	23 Aug20	ŏ
SAMPLE INFORM		method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091451	GFL0088751	GFL0086120
Sample Date		Client Info		28 Aug 2023	16 Aug 2023	12 Jul 2023
Machine Age	hrs	Client Info		11617	11450	11327
Dil Age	hrs	Client Info		462	295	172
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>90	46	31	15
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Fitanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<u> </u>	A 32	20
ead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	1	1	<1
īn	ppm	ASTM D5185m	>15	2	2	0
/anadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	10	10	0
Barium	ppm	ASTM D5185m	0	0	0	0
Nolybdenum	ppm	ASTM D5185m	60	67	64	62
Nanganese	ppm	ASTM D5185m	0	<1	<1	<1
lagnesium	ppm	ASTM D5185m	1010	936	894	868
	ppm	ASTM D5185m	1070	1226	1214	1132
Phosphorus	ppm	ASTM D5185m	1150	1044	994	972
Zinc Sulfur	ppm	ASTM D5185m	1270	1346	1240	1211
	ppm	ASTM D5185m	2060	3557	3367	3496
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	5	3
Sodium	ppm	ASTM D5185m	00	1	3	6
Potassium	ppm	ASTM D5185m		15	18	11
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.5	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	11.9	10.7	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.3	20.9	19.0
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.0	19.3	15.8
Base Number (BN)	ma KOH/a	ASTM D2896	98	5.2	6.4	7.5



OIL ANALYSIS REPORT



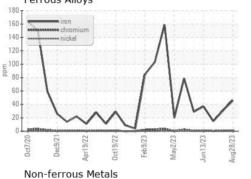


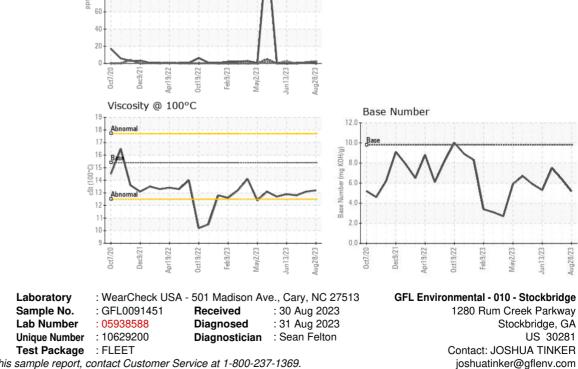
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.1	12.8
GRAPHS						

Ferrous Alloys

140

120 100 80





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)

Certificate L2367

Submitted By: JOSHUA TINKER

Т:

F: