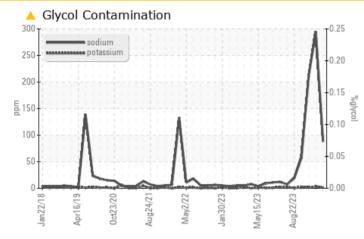


Machine Id **3667** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 15W40 (38 QTS)**

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIO	C TEST	RESULTS			
Sample Status			ATTENTION	ABNORMAL	ABNORMAL
Sodium	ppm	ASTM D5185m	<u> </u>	A 295	<u> </u>

Customer Id: GFL073 Sample No.: GFL0097234 Lab Number: 06006822 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 <u>customerservice@wearcheck.com</u>

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

13 Oct 2023 Diag: Jonathan Hester



We advise that you check for the source of the coolant leak. Check for low coolant level. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.



view report

19 Sep 2023 Diag: Jonathan Hester



We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.

07 Sep 2023 Diag: Wes Davis



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.







OIL ANALYSIS REPORT

GLYCOL

Machine Id 3667

Component

Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (38 QTS

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

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

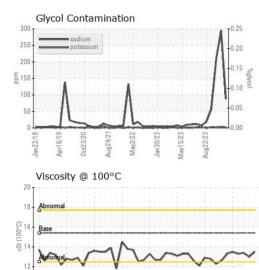
Fluid Condition

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

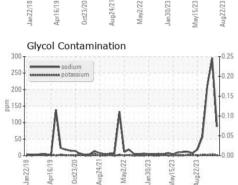
QTS)		2018 Apr21	19 0ct202 Aug2021	Maydotz Jac2023 Maydotz		
SAMPLE INFORM		method	limit/base	e current	history1	history2
Sample Number		Client Info		GFL0097234	GFL0097198	GFL0069145
Sample Date		Client Info		10 Nov 2023	13 Oct 2023	19 Sep 2023
Machine Age	hrs	Client Info		20410	20261	20210
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	e current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
	~					
WEAR METALS	S	method	limit/base		history1	history2
Iron	ppm	ASTM D5185m	>100	21	50	29
Chromium	ppm			1	3	1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		7	14	5
Lead	ppm	ASTM D5185m	>40	0	2	<1
Copper	ppm	ASTM D5185m		<1	5	4
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	e current	history1	history2
Boron	ppm	ASTM D5185m	0	8	8	11
Barium	ppm	ASTM D5185m	0	0	10	0
Molybdenum	ppm	ASTM D5185m	60	56	68	68
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		902	838	984
Calcium	ppm	ASTM D5185m		945	954	1083
Phosphorus	ppm	ASTM D5185m	1150	986	946	1028
Zinc	ppm	ASTM D5185m		1204	1089	1271
Sulfur	ppm	ASTM D5185m	2060	2945	2799	3700
CONTAMINAN	TS	method	limit/base	e current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	22	13
Sodium	ppm	ASTM D5185m		<u> </u>	A 295	A 211
Potassium	ppm	ASTM D5185m	>20	1	3	2
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	e current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	1	1
Nitration	% Abs/cm	*ASTM D7624		6.3	9.7	9.4
Sulfation	Abs/.1mm	*ASTM D7024		18.0	20.4	20.6
FLUID DEGRAD			limit/base		history1	history2
Oxidation	Abs/.1mm		>25	13.0	14.6	14.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	8.0	8.8

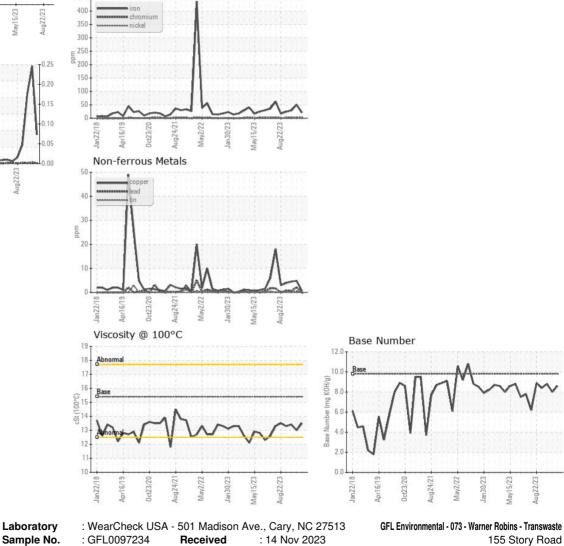


OIL ANALYSIS REPORT



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
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	13.5	13.0	13.4
GRAPHS						
Ferrous Alloys		manad				





: 16 Nov 2023

Diagnostician : Jonathan Hester

155 Story Road Warner Robins, GA US 31093 Contact: Mike Taft

Mav15/23

ua22/23

Test Package : FLEET (Additional Tests: Glycol) Certificate L2367 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)

Diagnosed

: 06006822

: 10740584

Lab Number

Unique Number

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T:

F: