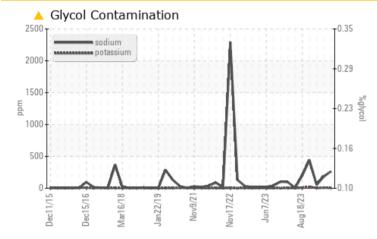




Machine Id **10530** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 15W40 (7 GAL)**

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	ATTENTION	NORMAL	
Sodium	ppm	ASTM D5185m		<u> </u>	1 85	52	

Customer Id: GFL010 Sample No.: GFL0101196 Lab Number: 06011900 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 <u>jhester@wearcheckusa.com</u>

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

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Resample			?	We recommend an early resample to monitor this condition.			
Check Glycol Access			?	We advise that you check for the source of the coolant leak.			

HISTORICAL DIAGNOSIS



10 Oct 2023 Diag: Jonathan Hester

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is negative. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



19 Sep 2023 Diag: Jonathan Hester



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.

12 Sep 2023 Diag: Wes Davis



We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample. All component wear rates are normal. Test for glycol is positive. There is a high concentration of glycol present in the oil. Light concentration of carbon/soot present in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.



view report







OIL ANALYSIS REPORT



GLYCOL

Machine Id 10530

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (7 GAL)

DIAGNOSIS

Recommendation

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.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high.

Fluid Condition

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

AL)		2015 Dec20	16 Mar2018 Jan2019	Nov2021 Nov2022 Jun2023 J	und the second s	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0101196	GFL0097867	GFL0094315
Sample Date		Client Info		17 Nov 2023	10 Oct 2023	19 Sep 2023
Machine Age	hrs	Client Info		21164	20980	20840
Oil Age	hrs	Client Info		324	140	539
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	ATTENTION	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	0	method	limit/base	ourroat	biotomit	history 0
				current	history1	history2
ron	ppm	ASTM D5185m	>100	24	9	6
Chromium	ppm	ASTM D5185m		<1 0	0	<1 0
Nickel	ppm	ASTM D5185m	>4	-	0	
Titanium	ppm	ASTM D5185m	0	<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0 3
Aluminum	ppm	ASTM D5185m		3		
Lead	ppm	ASTM D5185m	>40	<1 29	0	<1
Copper	ppm	ASTM D5185m		-		<1 0
Tin Vanadium	ppm	ASTM D5185m ASTM D5185m	>15	<1	0	0
Cadmium	ppm	ASTM D5185m		<1 0	0	0
	ppm			-	-	-
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	11	10	13
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	67	65	59
Vanganese	ppm	ASTM D5185m	0	<1	0	0
Magnesium	ppm	ASTM D5185m	1010	877	850	761
Calcium	ppm	ASTM D5185m	1070	1072	1037	1013
Phosphorus	ppm	ASTM D5185m	1150	1009	921	884
Zinc	ppm	ASTM D5185m	1270	1188	1150	1049
Sulfur	ppm	ASTM D5185m	2060	3054	2849	3095
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	7	4
Sodium	ppm	ASTM D5185m		<u> </u>	1 85	52
Potassium	ppm	ASTM D5185m	>20	2	11	3
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.1	0.5	0.4
Nitration	Abs/cm	*ASTM D7624		9.6	5.8	4.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	16.9	16.8
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	11.5	11.2

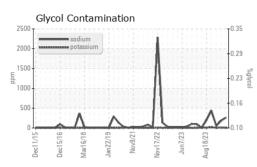


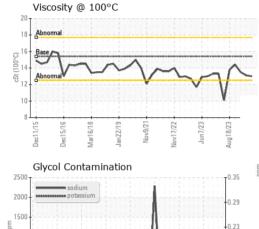
100

50

ec11/15

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	13.0	13.1	13.5
GRAPHS						

Ferrous Alloys

Non-ferrous Metals

0.16

110

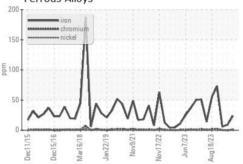
Aug18/23

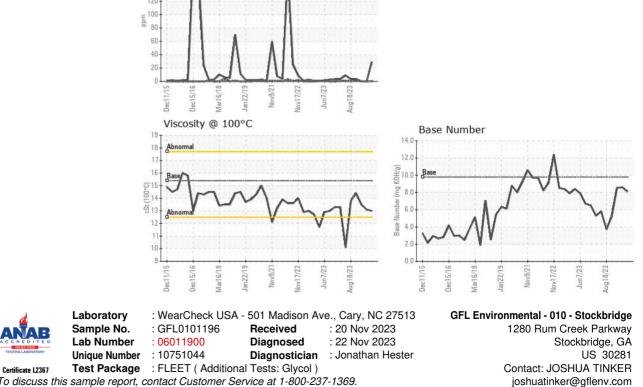
CC/11/01

1/ CC us

180

160 140 120





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)

Submitted By: JOSHUA TINKER

Page 4 of 4

Т:

F: