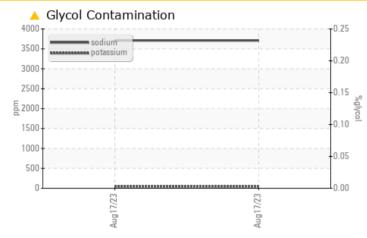




#### Machine Id **10981** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 15W40 (60 QTS)**

## COMPONENT CONDITION SUMMARY



## Silicon (ppm)



### RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL			
Silicon	ppm	ASTM D5185m	>25	<u> </u>				
Sodium	ppm	ASTM D5185m		<b>A</b> 3709				
Potassium	ppm	ASTM D5185m	>20	<u> </u>				

Customer Id: GFL005 Sample No.: GFL0092510 Lab Number: 05928688 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						
Action	Status	Date	Done By	Description		
Change Fluid			?	Oil and filter change at the time of sampling has been noted.		
Change Filter			?	Oil and filter change at the time of sampling has been noted.		
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



## **OIL ANALYSIS REPORT**

Sample Rating Trend



# Machine Id 10981

Component

Diesel Engine

## PETRO CANADA DURON SHP 15W40 (60 QTS)

### DIAGNOSIS

#### Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

Sodium and/or potassium levels are high. Elemental level of silicon (Si) above normal indicating ingress of seal material.

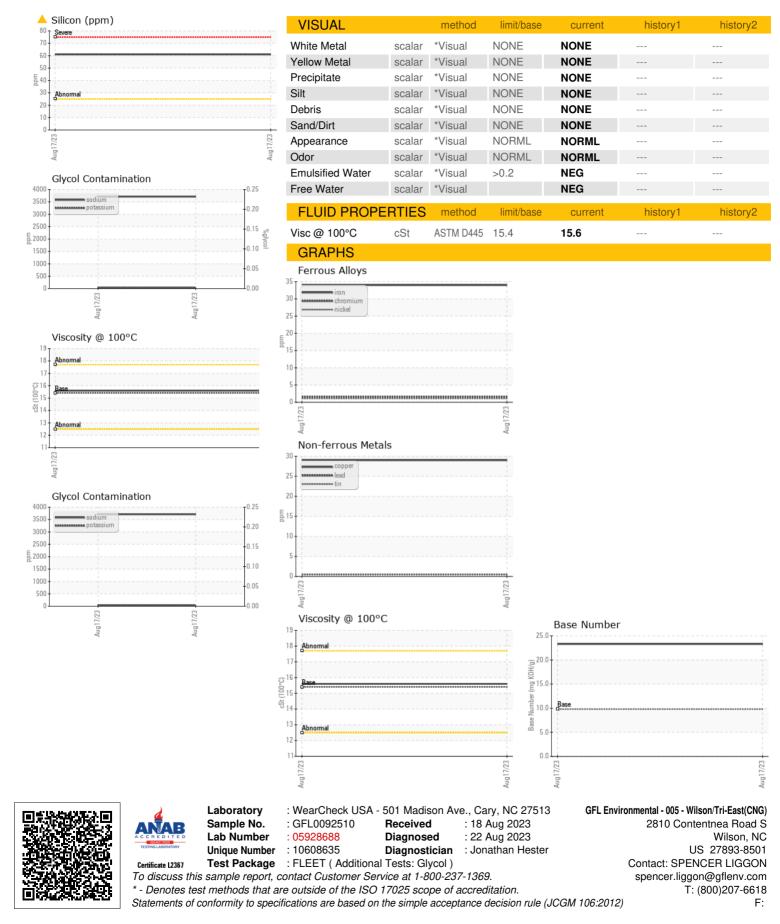
#### Fluid Condition

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

SAMPLE INFORM	<b>ATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092510		
Sample Date		Client Info		17 Aug 2023		
Machine Age	hrs	Client Info		7885		
Oil Age	hrs	Client Info		525		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	34		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>2	1		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>20	6		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	29		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	259		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	167		
Manganese	ppm	ASTM D5185m	0	1		
Magnesium	ppm	ASTM D5185m	1010	764		
Calcium	ppm	ASTM D5185m	1070	1137		
Phosphorus	ppm	ASTM D5185m	1150	954		
Zinc	ppm	ASTM D5185m	1270	1136		
Sulfur	ppm	ASTM D5185m	2060	3457		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		<u> </u>		
Sodium	ppm	ASTM D5185m		<u> </u>		
Potassium	ppm	ASTM D5185m	>20	<b>4</b> 6		
Glycol	%	*ASTM D2982		NEG		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	11.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7		



# **OIL ANALYSIS REPORT**



Submitted By: WALTER SKOKOWSKI

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