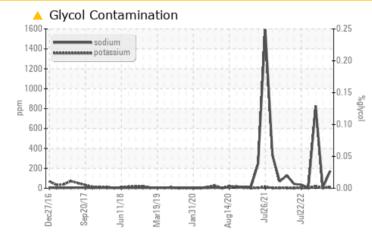


Machine Id **10706** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 15W40 (--- GAL)**

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for possible coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.

PROBLEMATIC	C TEST	RESULT	S			
Sample Status				ABNORMAL	NORMAL	ABNORMAL
Sodium	ppm	ASTM D5185m		<u> </u>	3	▲ 825

Customer Id: GFL008 Sample No.: GFL0081709 Lab Number: 05892769 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		
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



29 Mar 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.



view report

17 Oct 2022 Diag: Jonathan Hester



We advise that you check for possible 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.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.

05 Aug 2022 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.







OIL ANALYSIS REPORT

GLYCOL

Machine Id 10706

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

We advise that you check for possible 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.

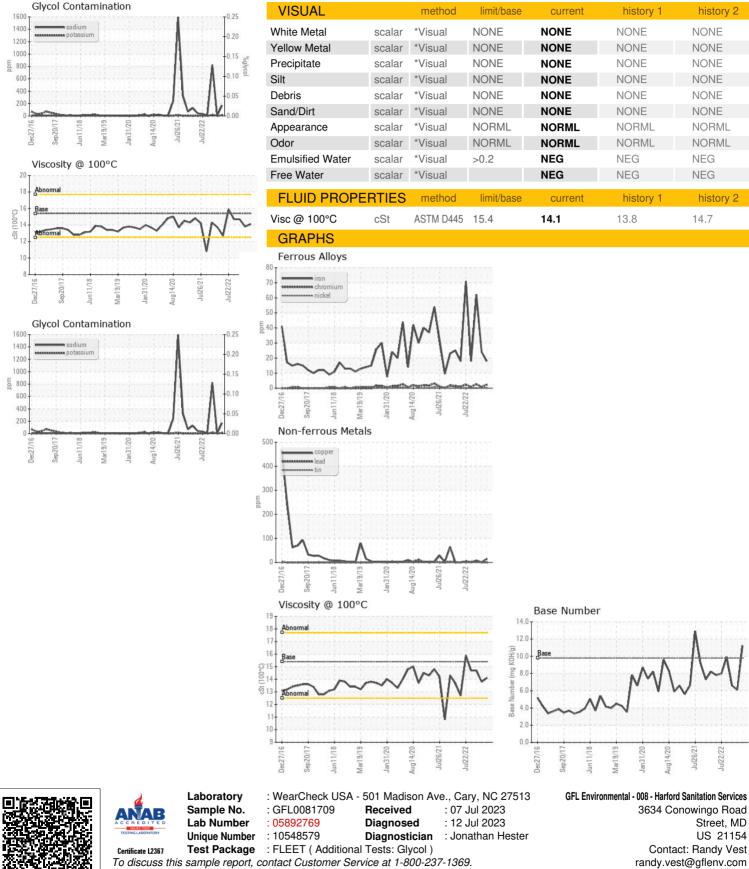
Fluid Condition

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

i AL) SAMPLE INFORI		nethod	In Jun2018 Mar2019	Jan2020 Aug2020 Jul2021 、	biotom d	biotom 0
			inniv base		history 1	history 2
Sample Number		Client Info		GFL0081709	GFL0074546	GFL0051051
Sample Date		Client Info		04 Jul 2023	29 Mar 2023	17 Oct 2022
Machine Age	hrs	Client Info		16632	16287	15688
Oil Age	hrs	Client Info		400	600	600
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METAL	S	method	limit/base	current	history 1	history 2
ron	ppm	ASTM D5185m	>100	18	24	62
Chromium	ppm	ASTM D5185m	>20	2	<1	3
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	3	4	7
_ead	ppm	ASTM D5185m	>40	0	<1	4
Copper	ppm	ASTM D5185m	>330	14	<1	8
Fin	ppm	ASTM D5185m	>15	<1	<1	<1
√anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	<1	1	5
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	60	78	17	135
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	427	253	981
Calcium	ppm	ASTM D5185m	1070	1555	2135	1183
Phosphorus	ppm	ASTM D5185m	1150	982	945	965
Zinc	ppm	ASTM D5185m	1270	1245	1151	1295
Sulfur	ppm	ASTM D5185m	2060	3826	3614	3278
CONTAMINAN		method	limit/base		history 1	history 2
		method ASTM D5185m	limit/base >25	current 10	history 1 15	11
Silicon	TS			current	history 1	
Silicon Sodium	TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		current 10 ▲ 172 12	history 1 15 3 3	11 ▲ 825 19
Silicon Sodium Potassium	TS ppm ppm	ASTM D5185m ASTM D5185m	>25	current 10 ▲ 172	history 1 15 3	11 ▲ 825
Silicon Sodium Potassium	TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25	current 10 ▲ 172 12	history 1 15 3 3	11 ▲ 825 19
Silicon Sodium Potassium Glycol INFRA-RED	TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982	>25 >20	Current 10 ▲ 172 12 NEG	history 1 15 3 3 NEG	11 825 19 NEG
Silicon Sodium Potassium Glycol INFRA-RED Soot %	TS ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982 method	>25 >20 limit/base	current 10 ▲ 172 12 NEG current	history 1 15 3 3 NEG history 1	11 ▲ 825 19 NEG history 2
Silicon Sodium Potassium Glycol	TS ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982 method *ASTM D7844	>25 >20 limit/base >3	Current 10 ▲ 172 12 NEG Current 0.1	history 1 15 3 3 NEG history 1 0.6	11 ▲ 825 19 NEG history 2 1
Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration	TS ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982 method *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >20 limit/base >3 >20	current 10 172 12 NEG current 0.1 5.3 17.8	history 1 15 3 3 NEG history 1 0.6 9.4	11 ▲ 825 19 NEG history 2 1 17.7
Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration Sulfation	TS ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982 method *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >20 limit/base >3 >20 >30	current 10 172 12 NEG current 0.1 5.3 17.8	history 1 15 3 3 NEG history 1 0.6 9.4 21.4	11 ▲ 825 19 NEG history 2 1 17.7 31.5



OIL ANALYSIS REPORT



* - 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)

Street, MD US 21154

F:

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Aug14/20 .

history 2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history 2

NEG

NEG

14.7