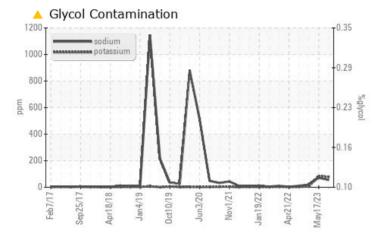


PROBLEM SUMMARY



Machine Id **10701** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 15W40 (11 GAL)**

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. (Customer Sample Comment: Hours are off working on fixing the issue)

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	NORMAL		
Sodium	ppm	ASTM D5185m		<u> </u>	<u> </u>	20		
Potassium	ppm	ASTM D5185m	>20	<mark>/</mark> 77	A 85	6		

Customer Id: GFL031 Sample No.: GFL0050900 Lab Number: 05941759 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.			

HISTORICAL DIAGNOSIS



17 May 2023 Diag: Jonathan Hester

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. Test for glycol is negative. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



view report

04 Jul 2022 Diag: Wes Davis

NORMAL

 \checkmark

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.

20 May 2022 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.









OIL ANALYSIS REPORT



current

history1

limit/base

history2

Machine Id 10701

Component

Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (11 GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. (Customer Sample Comment: Hours are off working on fixing the issue)

Wear

All component wear rates are normal.

Contamination

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

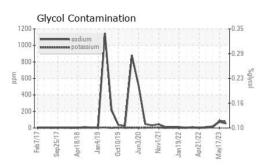
Fluid Condition

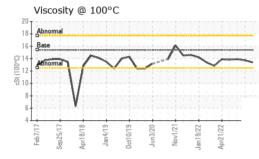
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

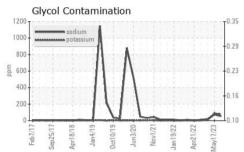
		method	initia babe	ourrent	Thotory	motoryz
Sample Number		Client Info		GFL0050900	GFL0050882	GFL0050819
Sample Date		Client Info		01 Sep 2023	17 May 2023	04 Jul 2022
Machine Age	hrs	Client Info		70100	4184	2485
Oil Age	hrs	Client Info		63496	4184	644
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINAT		method	limit/base	current	history1	history2
Fuel		WC Method		<1.0	<1.0	<1.0
	0					
WEAR METAL	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	29	16	27
Chromium	ppm	ASTM D5185m	>5	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>15	1	2	5
Lead	ppm	ASTM D5185m	>25	0	<1	<1
Copper	ppm	ASTM D5185m	>100	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	20	12	10
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	75	78	65
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	917	838	967
Calcium	ppm	ASTM D5185m	1070	1177	1109	1201
Phosphorus	ppm	ASTM D5185m	1150	1013	971	1062
Zinc	ppm	ASTM D5185m	1270	1203	1166	1306
Sulfur	ppm	ASTM D5185m	2060	3647	2865	3664
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	5	5
Sodium	ppm	ASTM D5185m	220	▲ 55	▲ 72	20
Potassium	ppm	ASTM D5185m	>20	▲ 33 ▲ 77	▲ 85	6
Glycol	%	*ASTM D3183/11	~	NEG	NEG	NEG
	70		11 11 11			
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.7	0.5	0.9
Nitration	Abs/cm	*ASTM D7624		6.5	7.0	11.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	19.8	21.9
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.4	14.3	18.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	9.1	8.0



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	13.4	13.7	13.9
GRAPHS						

Ferrous Alloys

Non-ferrous Metals

300

