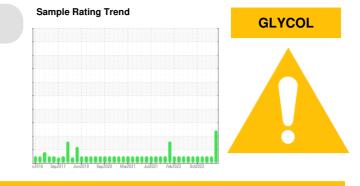


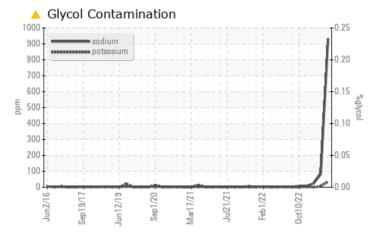
Machine Id 2510

PROBLEM SUMMARY



Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (10 GAL)

COMPONENT CONDITION SUMMARY



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	NORMAL	NORMAL						
Sodium	ppm	ASTM D5185m		A 931	83	24						
Potassium	ppm	ASTM D5185m	>20	<mark> 3</mark> 5	7	0						

Customer Id: GFL002 Sample No.: PCA0101726 Lab Number: 05946436 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
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



24 May 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.





13 Mar 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.

21 Dec 2022 Diag: Don Baldridge

NORMAL



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

Sample Rating Trend

GLYCOL

Machine Id 2510 Component

Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (10 GAL)

DIAGNOSIS

A 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.

Fluid Condition

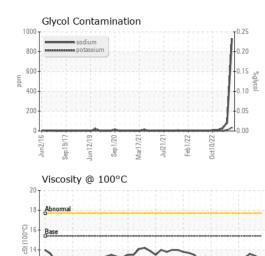
The BN result indicates that there is suitable alkalinity remaining in the oil.

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SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0101726	PCA0077272	PCA0074698
Sample Date		Client Info		05 Sep 2023	24 May 2023	13 Mar 2023
Machine Age	hrs	Client Info		22966	22668	22130
Oil Age	hrs	Client Info		657	657	657
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATIO	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	17	54	26
Chromium	ppm	ASTM D5185m	>5	<1	3	1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	0	4	1
Lead	ppm	ASTM D5185m	>150	1	6	<1
Copper	ppm	ASTM D5185m	>90	2	<1	<1
Tin	ppm	ASTM D5185m	>5	<1	<1	0
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	53	20	11
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	60	96	80	68
	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	866	992	899
Calcium	ppm	ASTM D5185m	1070	1314	1467	1196
Phosphorus	ppm	ASTM D5185m	1150	996	1152	985
	ppm	ASTM D5185m	1270	1209	1400	1280
Sulfur	ppm	ASTM D5185m	2060	3708	3769	3501
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	22	16	8
Sodium	ppm	ASTM D5185m		<mark>人</mark> 931	83	24
Potassium	ppm	ASTM D5185m	>20	<mark>/</mark> 35	7	0
Glycol	%	*ASTM D2982		NEG	0.0	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.2	0.7	0.9
Nitration	Abs/cm	*ASTM D7624	>20	7.7	12.9	12.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.1	26.3	25.2
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.3	23.6	22.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	11.0	6.1	6.7
. ,						

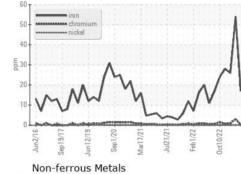


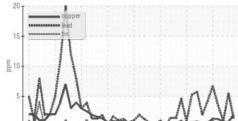
OIL ANALYSIS REPORT

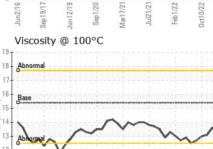


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	13.1	13.4	13.6
GRAPHS						

Ferrous Alloys







Sep1/20

Jul21/21 Feb1/22

: Jonathan Hester

Mar17/21

Received

Diagnosed

Diagnostician

cSt (100°C)

10

Laboratory

Sample No.

Lab Number

Unique Number

112/16

Sep19/17

: PCA0101726

Test Package : FLEET (Additional Tests: Glycol)

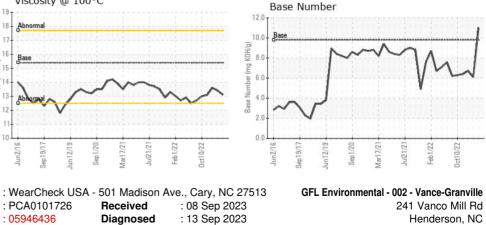
* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

: 05946436

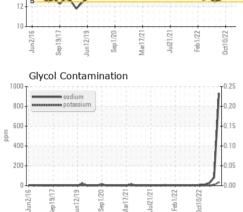
: 10642395

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Jun12/19



Henderson, NC US 27537 Contact: Cameron King cameron.king@gflenv.com T: (252)438-5333 F: (252)431-1635 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)



Certificate L2367

Submitted By: Cameron King

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