

Machine Id 827020-1032

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- LTR)

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. (Customer Sample Comment: No obvious signs of coolant intrusion)

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	SEVERE	ABNORMAL	
Potassium	ppm	ASTM D5185m	>20	<u> </u>	A 351	▲ 60	

Customer Id: GFL654S Sample No.: GFL0089524 Lab Number: 05922643 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



13 Jul 2023 Diag: Wes Davis

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. Test for glycol is positive. There is a high concentration of glycol 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

25 Apr 2023 Diag: Jonathan Hester



No corrective action is recommended at this time. 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 suitable for further service.

NORMAL



13 Mar 2023 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

Sample Rating Trend

GLYCOL

Machine Id 827020-1032

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- LTR)

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. (Customer Sample Comment: No obvious signs of coolant intrusion)

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels remain high.

Fluid Condition

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

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0089524	GFL0067866	GFL0067995
Sample Date		Client Info		07 Aug 2023	13 Jul 2023	25 Apr 2023
Machine Age	mls	Client Info		16877	188422	188422
Oil Age	mls	Client Info		169	544	137800
Oil Changed		Client Info		Not Changd	Changed	N/A
Sample Status				ABNORMAL	SEVERE	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	5	17	4
Chromium	ppm	ASTM D5185m	>4	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	2	4	<1
Lead	ppm	ASTM D5185m	>45	2	13	0
Copper	ppm	ASTM D5185m	>85	<1	4	1
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	4	7
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	79	107	72
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	999	1119	1079
Calcium	ppm	ASTM D5185m	1070	1090	1267	1197
Phosphorus	ppm	ASTM D5185m	1150	1110	1123	1132
Zinc	ppm	ASTM D5185m	1270	1359	1434	1389
Sulfur	ppm	ASTM D5185m	2060	4016	3933	3699
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	6	14	8
Sodium	ppm	ASTM D5185m		22	4 4	9
Potassium	ppm	ASTM D5185m	>20	<u> </u>	A 351	<u> </u>
Glycol	%	*ASTM D2982		NEG	0.10	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.5	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.6	11.7	6.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	24.8	17.1
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	21.1	14.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	7.3	7.8
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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	14.3	14.1	14.1
GRAPHS						

Ferrous Alloys







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

: GFL0089524

: 05922643

: 10602590

Jan25/22

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

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9 Sep28/20.

Laboratory

Sample No.

Lab Number

Unique Number

Abn

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Feb11/22

Apr15/22

Certificate L2367

Submitted By: TECHNICIAN ACCOUNT

Т:

F:

cumphlet@gflenv.com