

PROBLEM SUMMARY

Area (DXE868) Machine Id 3667

Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (38 QTS)

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	C TEST	RESULT	S			
Sample Status				SEVERE	ABNORMAL	ABNORMAL
Sodium	ppm	ASTM D5185m		<u> </u>	<u> </u>	1 81
Potassium	ppm	ASTM D5185m	>20	🔺 764	4 241	29
Water	%	ASTM D6304	>0.2	4.48		
ppm Water	ppm	ASTM D6304	>2000	44800		
Glycol	%	*ASTM D2982		a 0.12	0.06	NEG
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG	NEG

Customer Id: GFL073 Sample No.: GFL0068843 Lab Number: 06111036 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

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



22 Dec 2023 Diag: Don Baldridge

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil and perform a filter service on this component if not already done. 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 positive. 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



05 Dec 2023 Diag: Jonathan Hester

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.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.

16 Nov 2023 Diag: Jonathan Hester

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.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.





OIL ANALYSIS REPORT

Base Number (BN) mg KOH/g ASTM D2896 9.8

Sample Rating Trend

GLYCOL

(DXE868) 3667

Component **Diesel Engine**

Fluic

PETRO CANADA DURON SHP 15W40 (38 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. Test for glycol is positive. There is a high concentration of water and coolant present in the oil.

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

QTS)		52019 Aug20	Juizozi Apricozi	- Jan2023 Apr2023 Apr2023 - Aug2023 -		
SAMPLE INFOR	RMATION	method	limit/bas	e current	history1	history2
Sample Number Sample Date Machine Age	hrs	Client Info Client Info Client Info		GFL0068843 01 Mar 2024 20989	GFL0097151 22 Dec 2023 20839	GFL0097147 05 Dec 2023 20648
Oil Changed Sample Status		Client Info		Changed SEVERE	Not Changd ABNORMAL	Not Changd ABNORMAL
CONTAMINA	TION	method	limit/bas	e current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
WEAR META	LS	method	limit/bas	e current	history1	history2
Iron	ppm	ASTM D5185m	>75	19	6	27
Chromium	ppm	ASTM D5185m	>5	<1	0	1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	14	0
Aluminum	ppm	ASTM D5185m	>15	5	1	10
Lead	ppm	ASTM D5185m	>25	<1	<1	0
Copper	ppm	ASTM D5185m	>100	56	3	2
Tin	ppm	ASTM D5185m	>4	2	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/bas	e current	history1	history2
Boron	maa	ASTM D5185m	0	64	15	8
Barium	ppm	ASTM D5185m	0	0	0	0
Molvbdenum	maa	ASTM D5185m	60	152	76	59
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	806	881	860
Calcium	ppm	ASTM D5185m	1070	995	941	949
Phosphorus	ppm	ASTM D5185m	1150	951	1028	968
Zinc	ppm	ASTM D5185m	1270	1168	1243	1173
Sulfur	ppm	ASTM D5185m	2060	3241	3032	2903
CONTAMINA	NTS	method	limit/bas	e current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	5	12
Sodium	ppm	ASTM D5185m		178	2 87	1 81
Potassium	ppm	ASTM D5185m	>20	~ 764	2 41	29
Water	%	ASTM D6304	>0.2	4.48		
ppm Water	ppm	ASTM D6304	>2000	44800		
Glycol	%	*ASTM D2982		A 0.12	▲ 0.06	NEG
INFRA-RED		method	limit/bas	e current	history1	history2
Soot %	%	*ASTM D7844	>6	0.3	0.2	0.5
Nitration	Abs/cm	*ASTM D7624	>20	19.2	5.6	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	2.7	16.7	18.3
FLUID DEGRA		method	limit/bas	e currenț	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.2	12.2	13.2
-			-			-

47.3

9.0

11.6



OIL ANALYSIS REPORT



Submitted By: JOSH MALONEY

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