

PROBLEM SUMMARY



Machine Id 724002

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (26 QTS)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	NORMAL	NORMAL			
Iron	ppm	ASTM D5185m	>75	e 246	33	29			
Chromium	ppm	ASTM D5185m	>5	人 10	2	2			
Nickel	ppm	ASTM D5185m	>4	<mark> 8</mark>	<1	<1			
Aluminum	ppm	ASTM D5185m	>15	1 7	5	5			

Customer Id: GFL868 Sample No.: GFL0103483 Lab Number: 06025981 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	ECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description			
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.			
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.			
Resample			?	We recommend an early resample to monitor this condition.			

HISTORICAL DIAGNOSIS



28 Sep 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.



view report

19 Jul 2023 Diag: Wes Davis

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17 Jun 2023 Diag: Jonathan Hester



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view report





OIL ANALYSIS REPORT





Machine Id 724002

Component

Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (26 QTS)

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

🛑 Wear

Gear wear is indicated. Valve wear is indicated.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103483	GFL0094791	GFL0086315
Sample Date		Client Info		28 Nov 2023	28 Sep 2023	19 Jul 2023
Machine Age	hrs	Client Info		22500	22304	22182
Oil Age	hrs	Client Info		445	249	127
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				SEVERE	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	nnm	ASTM D5185m	>75	246	33	29
Chromium	ppm	ASTM D5185m	>5	10	2	2
Nickel	maa	ASTM D5185m	>4	▲ 8	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	<u> </u>	5	5
Lead	ppm	ASTM D5185m	>25	2	0	0
Copper	ppm	ASTM D5185m	>100	4	<1	<1
Tin	ppm	ASTM D5185m	>4	1	<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	3	4	3
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	60	72	60	63
Manganese	ppm	ASTM D5185m	0	2	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1112	928	1087
Calcium	ppm	ASTM D5185m	1070	1184	988	1141
Phosphorus	ppm	ASTM D5185m	1150	1148	1012	1127
Zinc	ppm	ASTM D5185m	1270	1452	1220	1406
Sulfur	ppm	ASTM D5185m	2060	2872	2845	3994
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	23	8	7
Sodium	ppm	ASTM D5185m		18	8	7
Potassium	ppm	ASTM D5185m	>20	15	4	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	2.2	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	12.7	8.0	6.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.0	18.3	18.0
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.3	14.9	14.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	8.0	9.1



OIL ANALYSIS REPORT

