

421020-401382

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

COMPONENT CONDITION SUMMARY







RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	ABNORMAL	ATTENTION	
Copper	ppm	ASTM D5185m	>330	<u> </u>	▲ 582	194	
Sodium	ppm	ASTM D5185m		<u> </u>	<u> </u>	1 90	

Customer Id: GFL822 Sample No.: GFL0079360 Lab Number: 05891941 Test Package: FLEET



To manage this report scan the QR code

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

HISTORICAL DIAGNOSIS



15 Mar 2023 Diag: Angela Borella

We advise that you check for possible coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). Sodium and/or potassium levels remain high. The BN result indicates that there is suitable alkalinity remaining in the oil.



view report

31 Jan 2023 Diag: Angela Borella



We advise that you check for the source of the coolant leak. Check for low coolant level. The 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. The BN result indicates that there is suitable alkalinity remaining in the oil.

21 Dec 2022 Diag: Jonathan Hester



We advise that you check for possible 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. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.







421020-401382

OIL ANALYSIS REPORT



Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

🔺 Wear

Machine Id

Component Diesel Engine

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other 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.

SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0079360	GFL0067115	GFL0067068
Sample Date		Client Info		09 Jun 2023	15 Mar 2023	31 Jan 2023
Machine Age	hrs	Client Info		19370	18909	18609
Oil Age	hrs	Client Info		700	700	150
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
CONTAMINATI	ON	method	limit/base	current	history 1	history 2
Fuel		WC Method	<u></u> 5	~1.0	<10	<10
	<u>_</u>			<1.0		
	5	method	limit/base	current	history I	nistory 2
Iron	ppm	ASTM D5185m	>100	22	29	16
Chromium	ppm	ASTM D5185m	>20	1	2	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	1	0
Lead	ppm	ASTM D5185m	>40	4	8	2
Copper	ppm	ASTM D5185m	>330	<u> </u>	▲ 582	194
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	0	0	8
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	69	87	78
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1013	1034	906
Calcium	ppm	ASTM D5185m	1070	1125	1161	1059
Phosphorus	ppm	ASTM D5185m	1150	1049	1077	1011
Zinc	ppm	ASTM D5185m	1270	1271	1389	1212
Sulfur	ppm	ASTM D5185m	2060	3046	3103	2840
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	2	4	4
Sodium	ppm	ASTM D5185m		<mark>/</mark> 90	A 242	1 90
Potassium	ppm	ASTM D5185m	>20	1	5	7
Glycol	%	*ASTM D2982		0.0	NEG	NEG
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	0.6	0.6	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.9	9.9	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	21.5	19.8
FLUID DEGRAD	ATION	method	limit/base	current	history 1	history 2
Oxidation	Ahs/ 1mm	*ASTM D7414	>25	17.0	17.6	14.8
Base Number (BN)	ma KOH/a	ASTM D2896	9.8	8.9	8.1	10.1
					0	



OIL ANALYSIS REPORT









VISUAL		method	limit/base	current	history 1	history 2
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	history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	14.4	14.6	14.2



 Certificate 12367
 Test Package
 : FLEET (Additional Tests: Glycol)

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
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 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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