

721018-361460

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

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	ABNORMAL	ABNORMAL			
Iron	ppm	ASTM D5185m	>100	e 225	<u> </u>	69			
Aluminum	ppm	ASTM D5185m	>20	<u> </u>	1 0	<u> </u>			
Silicon	ppm	ASTM D5185m	>25	<u> </u>	6 3	<mark>▲</mark> 32			

Customer Id: GFL820 Sample No.: GFL0067724 Lab Number: 05904111 Test Package: FLEET



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To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com



RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Filter			?	We recommend you service the filters on this component.			
Resample			?	We recommend an early resample to monitor this condition.			
Check Dirt Access			?	We advise that you check the air filter, air induction system, and any areas where dirt may enter the component.			

HISTORICAL DIAGNOSIS



15 Jun 2023 Diag: Don Baldridge

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.Cylinder, crank, or cam shaft wear is indicated. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress. The BN result indicates that there is suitable alkalinity remaining in the oil.



view report

18 May 2023 Diag: Sean Felton

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor.All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





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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 ANALYS

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Machine Id 721018-361460

Component **Diesel Engine** Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

🛡 Wear

Cylinder, crank, or cam shaft wear is indicated.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

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

SIS REPC)RT	Gamp				WEAR
GAL)						
,		Sep2022	Feb2023 Mar2023	AprZ023 May2023 Jun2023	Jul2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0067724	GFL0067721	GFL0067675
Sample Date		Client Info		11 Jul 2023	15 Jun 2023	18 May 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age Oil Changed	nrs	Client Info		U N/A	U N/A	U N/A
Sample Status				SEVERE	ABNORMAI	ABNORMAL
		mathad	limit/booo	ourropt	historut	biotom/Q
				current	nistory r	Tilstory2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Giycol		WC Wethod		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	e 225	1 29	69
Chromium	ppm	ASTM D5185m	>20	19	17	9
Nickel	ppm	ASTM D5185m	>4	0	0	0
Litanium	ppm	ASTM D5185m	. 0	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>3		0	0
Lead	ppm	ASTM D5185m	>40	_ _ _ _ _ 13	11	4
Copper	ppm	ASTM D5185m	>330	4	3	2
Tin	ppm	ASTM D5185m	>15	2	2	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	4	3	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	67	63	62
Manganese	ppm	ASTM D5185m	0	2	2	<1
Magnesium	ppm	ASTM D5185m	1010	1078	1029	999
Calcium	ppm	ASTM D5185m	1070	1369	1284	1223
Zinc	ppm	ASTM D5185m	1270	1367	1370	1323
Sulfur	ppm	ASTM D5185m	2060	3607	3578	3487
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silison	10		. 05			
Solium	ppm	ASTM D5185m	>20	6	6	5
Potassium	mag	ASTM D5185m	>20	0	1	3
	•••	mathad	limit/booo	ourropt	biotomit	biotom/Q
	0/	method		current	nistory I	nistory2
Soot %	%	*ASTM D7844	>3	0.9	1.1	0.6
Sulfation	ADS/CM Abs/1mm	*ASTM D7624	>20	23.6	23.6	0.0 20.8
			200	20.0	20.0	20.0
FLUID DEGRAL	JATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.1	21.2	16.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.5	8.2	8.8



OIL ANALYSIS REPORT



Contact/Location: James Jarrett - GFL820