

WEAR

227108-249

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

COMPONENT CONDITION SUMMARY







RECOMMENDATION

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

PROBLEMATIC TEST RESULTS									
Sample Status				ATTENTION	ATTENTION	ATTENTION			
Sodium	ppm	ASTM D5185m		<u> </u>	9 7	77			
Visc @ 100°C	cSt	ASTM D445	15.4	12.1	12.1	1 1.9			

Customer Id: GFL166 Sample No.: GFL0087885 Lab Number: 05953766 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			
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



08 Aug 2023 Diag: Jonathan Hester

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is negative. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.







No corrective action is recommended at this time. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

09 Mar 2023 Diag: Jonathan Hester





No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Sodium and/or potassium levels remain high. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.



view report

view report





OIL ANALYSIS REPORT



Machine Id 227108-249

Component **Diesel Engine** Fluid

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

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels remain high. Test for glycol is negative.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sample Number		Client Info		GFL0087885	GFL0087825	GFL0081204
Sample Date		Client Info		13 Sep 2023	08 Aug 2023	24 May 2023
Machine Age	hrs	Client Info		4429	4429	4399
Oil Age	hrs	Client Info		600	200	600
Oil Changed	1110	Client Info		Changed	Not Change	Not Change
		Client Inio				
Sample Status				ATTENTION	ATTENTION	ATTENTION
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	>100	24	26	15
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	1	<1	<1
Titanium	ppm	ASTM D5185m		1	1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	5	3
Lead	ppm	ASTM D5185m	>40	2	2	<1
Copper	nnm	ASTM D5185m	>330	2	2	2
Tin	nnm	ASTM D5185m	>15	_ <1	<1	<1
Vanadium	nnm	ASTM D5185m	210	0	<1	0
Codmium	ppm	ASTM D5105m		0	0	0
Gaumum	ррпі	ASTIVI DOTODIII		U	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	302	330	335
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm	ASTM D5185m	60	79	76	75
Manganese	maa	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	398	428	426
Calcium	ppm	ASTM D5185m	1070	1396	1456	1438
Phosphorus	nnm	ASTM D5185m	1150	990	962	1003
Zinc	nnm	ASTM D5185m	1270	1120	1101	1101
Culture	ppiii	ACTM DE105m	0060	1123	0700	1131
Sullui	ррпі	ASTIVI DOTODIII	2000	3257	3723	3032
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13	12	11
Sodium	ppm	ASTM D5185m		<u> </u>	9 7	77
Potassium	ppm	ASTM D5185m	>20	11	10	7
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	0/_	*ASTM D79//	<u>_3</u>	0.9	0.9	0.3
SUUL 70	70 Abs/ser	*ACTM D7004	>0	0.9	0.9	0.3
Nitration	ADS/CIT	ASTIM D7624	>20	7.9	C. 1	1.2
Sulfation	Abs/.1mm	"ASTM D7415	>30	21.8	21.1	20.8
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	14.2	14.9
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 9.8	14.8 8.8	14.2 7.8	14.9 8.0

limit/hr



OIL ANALYSIS REPORT



Submitted By: DARRIN WRIGHT