

RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	ABNORMAL	NORMAL	
Aluminum	ppm	ASTM D5185m	>30	<u> </u>	<u> </u>	8	
Silicon	ppm	ASTM D5185m	>20	🔺 25	a 23	5	

Customer Id: GFL415 Sample No.: GFL0089111 Lab Number: 06016113 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 <u>jhester@wearcheckusa.com</u>

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

RECOMMENDE	D ACTIONS			
Action	Status	Date	Done By	Description
Check Dirt Access			?	We advise that where dirt may

you check the air filter, air induction system, and any areas where dirt may enter the component.

HISTORICAL DIAGNOSIS

20 Nov 2023 Diag: Don Baldridge



We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. 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. The condition of the oil is acceptable for the time in service.



view report

06 Sep 2022 Diag: Wes Davis



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.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.



30 Jun 2022 Diag: Wes Davis

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.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.

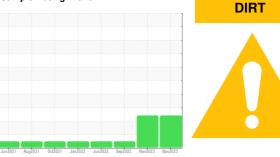






OIL ANALYSIS REPORT

Sample Rating Trend



Component **Diesel Engine** Fluid

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

				-			
	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		GFL0089111	GFL0101573	GFL0057208
ction	Sample Date		Client Info		22 Nov 2023	20 Nov 2023	06 Sep 2022
е	Machine Age	hrs	Client Info		15636	15628	12065
val to	Oil Age	hrs	Client Info		12065	12065	4739
	Oil Changed		Client Info		Not Changd	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	NORMAL
	CONTAMINAT		method	limit/base	current	history1	history2
AI)	Fuel		WC Method	>5	<1.0	<1.0	<1.0
-u)	Water		WC Method		<1.0 NEG	NEG	NEG
				>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
ne	WEAR METAL	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>80	65	67	23
	Chromium	ppm	ASTM D5185m	>5	6	6	<1
	Nickel	ppm	ASTM D5185m	>2	2	2	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m	>30	<u> </u>	<u> </u>	8
	Lead	ppm	ASTM D5185m		0	<1	<1
	Copper	ppm	ASTM D5185m		2	2	1
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	Cadmium	ppm	ASTM D5185m		0	0	<1
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm		0	0	<1	10
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	60	59	60	62
	Manganese	ppm			<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	1038	1051	871
	Calcium	ppm	ASTM D5185m	1070	1149	1180	1077
	Phosphorus	ppm	ASTM D5185m	1150	960	929	1006
	Zinc	ppm	ASTM D5185m	1270	1371	1288	1222
	Sulfur	ppm	ASTM D5185m	2060	3147	3103	2962
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>20	4 25	A 23	5
	Sodium	ppm	ASTM D5185m		6	6	<1
	Potassium	ppm	ASTM D5185m	>20	2	2	19
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>3	0.1	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624		6.7	6.8	9.1
	Sulfation	Abs/.1mm	*ASTM D7415		18.7	18.8	20.8
	FLUID DEGRAI		method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	15.1	17.6
	Base Number (BN)	mg KOH/g	ASTM D7414 ASTM D2896		9.1	8.8	9.5
	Dase Nulliber (DN)	ing NOTi/g	A0 HW D2030	5.0	3.1	0.0	0.0

DIAGNOSIS Recommendation

We advise that you check the air filter, air inde system, and any areas where dirt may enter the component. Resample at the next service inte monitor.

Machine Id 4685M

🔺 Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of oil is suitable for further service.



OIL ANALYSIS REPORT

