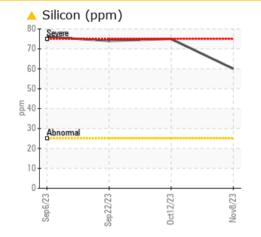
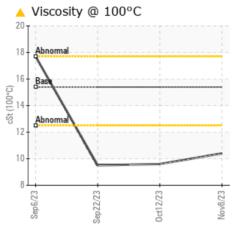
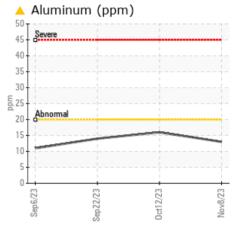


COMPONENT CONDITION SUMMARY







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	ABNORMAL			
Aluminum	ppm	ASTM D5185m	>20	<u> </u>	1 6	14			
Silicon	ppm	ASTM D5185m	>25	<u> </u>	A 75	~ 74			
Visc @ 100°C	cSt	ASTM D445	15.4	<u> </u>	9 .6	9 .5			

Customer Id: GFL166 Sample No.: GFL0100234 Lab Number: 06005194 Test Package: FLEET



To manage this report scan the QR code

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

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

RECOMMENDE	D ACTIONS			
Action	Status	Date	Done By	Description
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



12 Oct 2023 Diag: Don Baldridge

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

22 Sep 2023 Diag: Jonathan Hester

DIRT



No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

DIRT

06 Sep 2023 Diag: Jonathan Hester

No corrective action is recommended at this time. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.







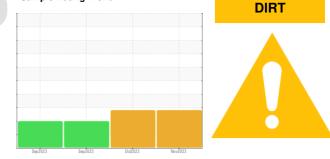
view report

Report Id: GFL166 [WUSCAR] 06005194 (Generated: 11/15/2023 13:44:47) Rev: 1



OIL ANALYSIS REPORT

Sample Rating Trend



Area **166** 414062 Component **1 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. Resample at the next service interval to monitor.

🔺 Wear

All component wear rates are normal.

Contamination

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

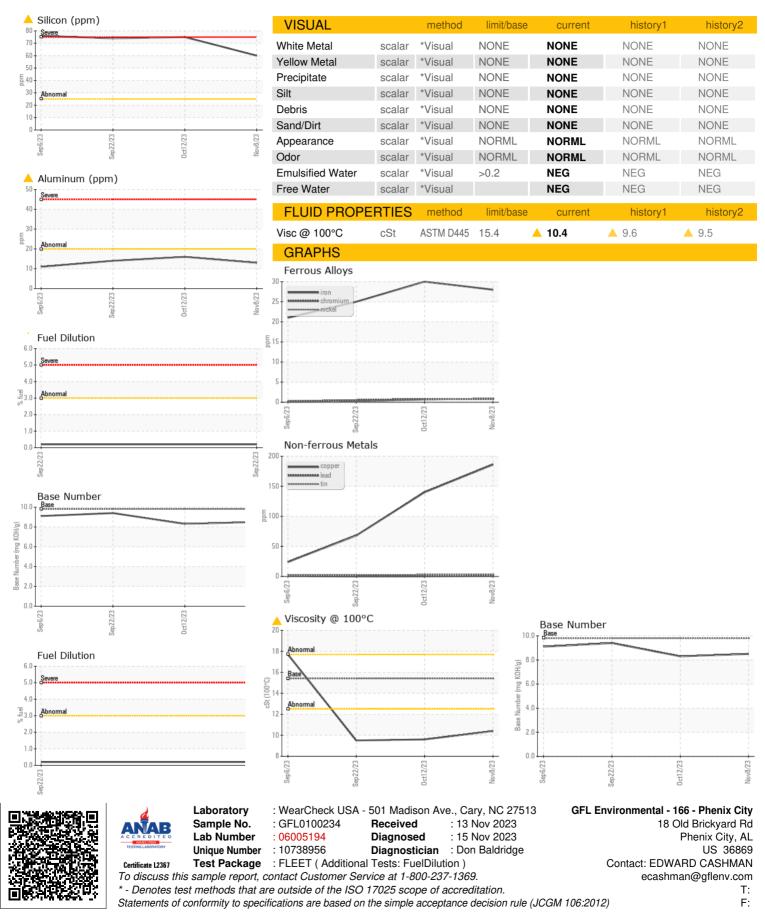
Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0100234	GFL0081214	GFL0087876
Sample Date		Client Info		08 Nov 2023	12 Oct 2023	22 Sep 2023
Machine Age	hrs	Client Info		10133	7810	5541
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	28	30	25
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	1	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	2	<1	<1
Aluminum	ppm	ASTM D5185m	>20	<u> </u>	1 6	14
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	186	140	68
Tin	ppm	ASTM D5185m	>15	3	3	3
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	199	285	350
Barium	ppm	ASTM D5185m	0	1	0	0
Molybdenum	ppm	ASTM D5185m	60	111	127	130
Manganese	ppm	ASTM D5185m		4	4	4
Magnesium	ppm	ASTM D5185m	1010	731	696	675
Calcium	ppm	ASTM D5185m	1070	1322	1409	1411
Phosphorus	ppm	ASTM D5185m	1150	747	683	670
Zinc	ppm	ASTM D5185m	1270	853	818	831
Sulfur	ppm	ASTM D5185m	2060	2376	2613	2744
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<u> </u>	4 75	4 74
Sodium	ppm	ASTM D5185m		<1	4	3
Potassium	ppm	ASTM D5185m	>20	38	42	34
Fuel	%	ASTM D3524	>3.0	<1.0	<1.0	0.2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.2	8.0	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.1	24.6	25.8
		and the state	limit/base	ourropt	history1	history2
FLUID DEGRAD	DATION	method	iiiiii/base	current	history	Thistory 2
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25	20.9 8.5	21.5 8.3	21.6 9.4



OIL ANALYSIS REPORT



Submitted By: DARRIN WRIGHT