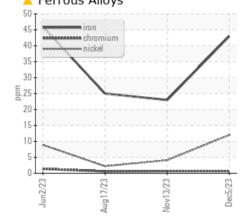
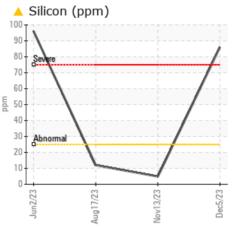
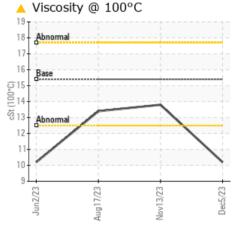


▲ Ferrous Alloys







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	NORMAL	NORMAL	
Nickel	ppm	ASTM D5185m	>5	<u> </u>	4	2	
Silicon	ppm	ASTM D5185m	>25	<u> </u>	5	12	
Visc @ 100°C	cSt	ASTM D445	15.4	<u> </u>	13.8	13.4	

Customer Id: GFL401 Sample No.: GFL0096883 Lab Number: 06025978 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 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



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.



view report

17 Aug 2023 Diag: Wes Davis

13 Nov 2023 Diag: Wes Davis



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.

02 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. 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. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of dirt/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.



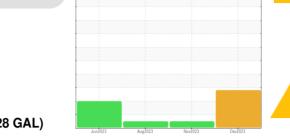






OIL ANALYSIS REPORT

Sample Rating Trend



DIRT

i i i i i i i i i i i i i i i i i i i

913128 Component **Diesel Engine**

Machine Id

Fluid PETRO CANADA DURON SHP 15W40 (28 GAL)

DIAGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0096883	GFL0091701	GFL0091718
We advise that you check the air filter, air induction	Sample Date		Client Info		05 Dec 2023	13 Nov 2023	17 Aug 2023
ystem, and any areas where dirt may enter the	Machine Age	hrs	Client Info		0	0	1215
omponent. Resample at the next service interval to	Oil Age	hrs	Client Info		0	600	600
nonitor.	Oil Changed		Client Info		N/A	Changed	Changed
Wear	Sample Status				ABNORMAL	NORMAL	NORMAL
alve wear is indicated.			and the second	11		Interface and	la la tarra d
Contamination	CONTAMINA	HON	method	limit/base	current	history1	history2
uel content negligible. Elemental level of silicon	Water		WC Method	>0.2	NEG	NEG	NEG
Si) above normal indicating ingress of dirt/seal naterial.	Glycol		WC Method		NEG	NEG	NEG
	WEAR METAI	S	method	limit/base	current	history1	history2
Fluid Condition							
he oil viscosity is lower than normal. The BN result idicates that there is suitable alkalinity remaining in	Iron	ppm	ASTM D5185m		43	23	25
e oil. Confirm oil type.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		▲ 12	4	2
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m		1	<1	<1
	Aluminum	ppm	ASTM D5185m		4	2	0
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m	>330	89	14	69
	Tin	ppm	ASTM D5185m	>15	2	<1	1
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	194	2	11
	Barium	ppm	ASTM D5185m	0	3	2	0
	Molybdenum	ppm	ASTM D5185m	60	120	60	69
	Manganese	ppm	ASTM D5185m	0	4	<1	1
	Magnesium	ppm	ASTM D5185m	1010	680	917	1025
	Calcium	ppm	ASTM D5185m	1070	1448	1098	1248
	Phosphorus	ppm	ASTM D5185m		658	914	1013
	Zinc	ppm	ASTM D5185m	1270	854	1197	1327
	Sulfur	ppm	ASTM D5185m	2060	2526	3827	3251
	CONTAMINA	NTS	method	limit/base	current	history1	history2
			ASTM D5185m	>25	A 86	5	12
	Silicon	ppm	AO INI DUTUUIII		_ 00		
	Silicon Sodium	ppm ppm	ASTM D5185m		2	0	2
	Sodium	ppm	ASTM D5185m	>20	2	0	2
	Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>20	2 8 0.3	0 1	2 2
	Sodium Potassium Fuel INFRA-RED	ppm ppm %	ASTM D5185m ASTM D5185m ASTM D3524	>20 >3.0 limit/base	2 8 0.3 current	0 1 <1.0 history1	2 2 <1.0 history2
	Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm %	ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844	>20 >3.0 limit/base >4	2 8 0.3 current 0.6	0 1 <1.0 history1 0.7	2 2 <1.0 history2 0.7
	Sodium Potassium Fuel INFRA-RED	ppm ppm %	ASTM D5185m ASTM D5185m ASTM D3524 method	>20 >3.0 limit/base >4 >20	2 8 0.3 current	0 1 <1.0 history1	2 2 <1.0 history2
	Sodium Potassium Fuel INFRA-RED Soot % Nitration	 ppm ppm % % Abs/cm Abs/.1mm 	ASTM D5185m ASTM D5185m ASTM D3524 *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 >3.0 limit/base >4 >20	2 8 0.3 <u>current</u> 0.6 10.0 24.3	0 1 <1.0 history1 0.7 8.8 20.2	2 2 <1.0 history2 0.7 8.7 20.4
	Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D3524 *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 >3.0 limit/base >4 >20 >30 limit/base	2 8 0.3 <u>current</u> 0.6 10.0 24.3	0 1 <1.0 history1 0.7 8.8	2 2 <1.0 history2 0.7 8.7

Base Number (BN) mg KOH/g ASTM D2896 9.8

7.3

7.4

7.5



OIL ANALYSIS REPORT

