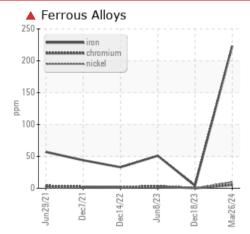
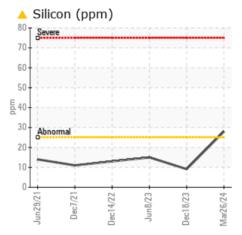
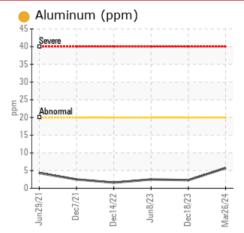


COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (Customer Sample Comment: Early sampled)

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	NORMAL	ABNORMAL		
Iron	ppm	ASTM D5185m	>90	A 223	4	51		
Nickel	ppm	ASTM D5185m	>2	人 10	<1	2		
Silicon	ppm	ASTM D5185m	>25	<u> </u>	9	15		

Customer Id: GFL405 Sample No.: GFL0115175 Lab Number: 06136083 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

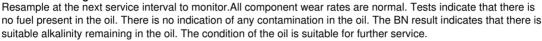
To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

Action	Status	Date	Done By	Description
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.
Change Fluid			?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Change Filter			?	We recommend that you drain the oil and perform a filter service on this component if not already done.
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



18 Dec 2023 Diag: Wes Davis





08 Jun 2023 Diag: Jonathan Hester

We advise that you check for the source of the coolant leak. Check for low coolant level. We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.



14 Dec 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

WEAR

X



Component Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (5 GAL)

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (Customer Sample Comment: Early sampled)

Machine Id

🔺 Wear

The iron level is severe for time on oil. Cylinder, crank, or cam shaft wear is indicated. Valve 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. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

ON SHP 15W40 ((5 GAL)	Jun2021	Dec2021 Dec2022	2 Jun2023 Dec2023	Mar2024	
SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115175	GFL0105729	GFL0081415
Sample Date		Client Info		26 Mar 2024	18 Dec 2023	08 Jun 2023
Machine Age	hrs	Client Info		10737	10557	10127
Oil Age	hrs	Client Info		180	10127	9587
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				SEVERE	NORMAL	ABNORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.0	7 .6
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	A 223	4	51
Chromium	ppm	ASTM D5185m	>20	5	<1	3
Nickel	ppm	ASTM D5185m	>2	<u> </u>	<1	2
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	2	2
Lead	ppm	ASTM D5185m	>40	0	0	2
Copper	ppm	ASTM D5185m	>330	4	12	1
Tin	ppm	ASTM D5185m	>15	<1	0	<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	5	18	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	60	59
Manganese	ppm	ASTM D5185m	0	2	0	<1
Magnesium	ppm	ASTM D5185m	1010	851	870	789
Calcium	ppm	ASTM D5185m	1070	995	975	942
Phosphorus	ppm	ASTM D5185m	1150	973	821	901
Zinc	ppm	ASTM D5185m	1270	1153	1102	1087
Sulfur	ppm	ASTM D5185m	2060	3253	2879	2789
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<u> </u>	9	15
Sodium	ppm	ASTM D5185m		67	0	1 07
Potassium	ppm	ASTM D5185m	>20	2	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.9	0.1	0.9
Nitration	Abs/cm	*ASTM D7624	>20	9.3	4.5	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	17.8	21.0
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	13.3	17.8
Base Number (BN)	mg KOH/g		9.8	9.3	9.0	8.2
	3					



OIL ANALYSIS REPORT

