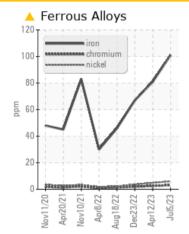


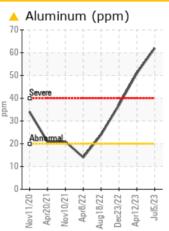
WEAR

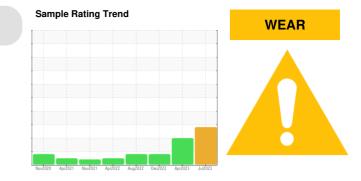
Machine Id 222028-991

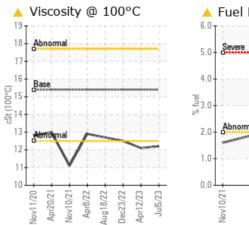
Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- LTR)

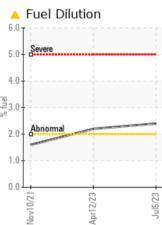
COMPONENT CONDITION SUMMARY











RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	<u> </u>	81	67
Aluminum	ppm	ASTM D5185m	>20	<u> </u>	5 1	3 7
Fuel	%	ASTM D3524	>2.0	<u> </u>	<u> </u>	<1.0
Visc @ 100°C	cSt	ASTM D445	15.4	12.2	1 2.1	12.5

Customer Id: GFL657 Sample No.: GFL0082513 Lab Number: 05891030 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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

12 Apr 2023 Diag: Jonathan Hester



No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. All other component wear rates are normal. Light fuel dilution occurring. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

23 Dec 2022 Diag: Jonathan Hester

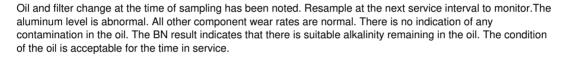


25 Dec 2022 Diag. Jonathan Heste

No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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.



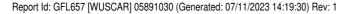
18 Aug 2022 Diag: Don Baldridge





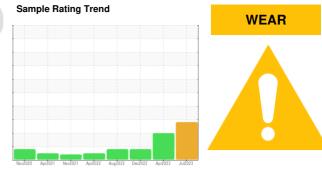


view report





OIL ANALYSIS REPORT



Machine Ic 222028-991

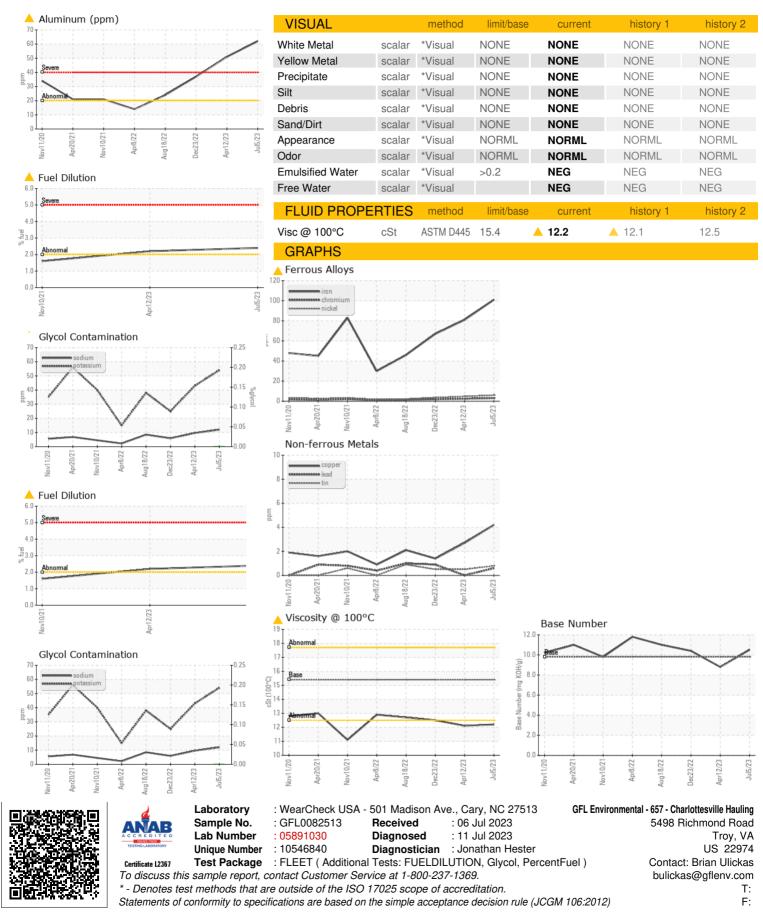
A Wear

Component **Diesel Engine** Fluic PETRO CANADA DURON SHP 15W40 (--- LTR)

SAMPLE INFORMATION method DIAGNOSIS limit/base current history 1 history 2 GFL0082513 GFL0070890 GFL0057992 Sample Number **Client Info** Recommendation No corrective action is recommended at this time. Sample Date Client Info 05 Jul 2023 12 Apr 2023 23 Dec 2022 Resample at the next service interval to monitor. 9932 Machine Age hrs **Client Info** 9790 9628 Oil Age hrs Client Info 182 262 100 Piston and cylinder wear is indicated. Oil Changed Client Info N/A Not Changd Not Changd Sample Status ABNORMAL ABNORMAL ABNORMAL Contamination Light fuel dilution occurring. WEAR METALS method limit/base current history 1 history 2 Fluid Condition >100 81 67 Iron ppm ASTM D5185m 🔺 101 Fuel is present in the oil and is lowering the Chromium ASTM D5185m >20 3 2 2 ppm viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. Nickel ppm ASTM D5185m >4 6 5 4 Titanium ASTM D5185m <1 <1 ppm <1 0 Silver ppm ASTM D5185m >3 0 <1 Aluminum ASTM D5185m >20 62 51 37 ppm Lead ASTM D5185m >40 <1 0 <1 ppm ASTM D5185m 4 3 >330 1 Copper ppm Tin ppm ASTM D5185m >15 <1 <1 <1 Vanadium ASTM D5185m 0 ppm <1 <1 Cadmium ppm ASTM D5185m 0 0 0 **ADDITIVES** limit/base current history 1 history 2 method 7 8 0 4 Boron ppm ASTM D5185m Barium ppm ASTM D5185m 0 <1 0 0 60 68 67 61 Molybdenum ppm ASTM D5185m 2 Manganese ppm ASTM D5185m 0 1 <1 ASTM D5185m 1010 959 917 951 Magnesium ppm Calcium ppm ASTM D5185m 1070 1123 1063 1099 Phosphorus ppm ASTM D5185m 1150 1010 1045 1010 Zinc ASTM D5185m 1270 1222 1214 1250 ppm 3549 Sulfur ASTM D5185m 2060 3718 ppm 3660 CONTAMINANTS method limit/base current history history 2 Silicon ppm ASTM D5185m >25 7 4 5 6 Sodium ppm ASTM D5185m 12 10 Potassium ASTM D5185m >20 54 43 25 ppm 2.4 2.2 Fuel % ASTM D3524 >2.0 <1.0 % *ASTM D2982 0.0 NEG NEG Glycol **INFRA-RED** limit/base method current history 1 history 2 Soot % % *ASTM D7844 >3 1.1 0.7 0.5 Abs/cm *ASTM D7624 Nitration >20 9.5 7.7 6.8 Sulfation Abs/.1mm *ASTM D7415 >30 20.6 17.2 18.9 **FLUID DEGRADATION** method limit/base current history 1 history 2



OIL ANALYSIS REPORT



Submitted By: TECHNICIAN ACCOUNT