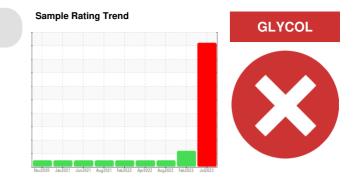


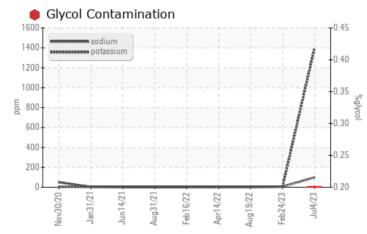
PROBLEM SUMMARY

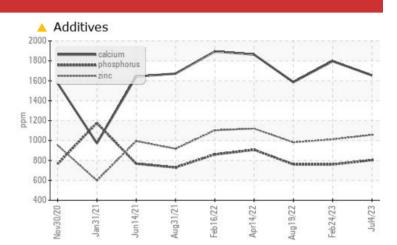


Machine Id 910027

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (8 GAL)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

THOBLEWINT			U			
Sample Status				SEVERE	ABNORMAL	NORMAL
Magnesium	ppm	ASTM D5185m	1010	🔺 625	598	554
Calcium	ppm	ASTM D5185m	1070	🔺 1654	1796	1587
Sodium	ppm	ASTM D5185m		<u> </u>	7	4
Potassium	ppm	ASTM D5185m	>20	🔺 1401	6	2
Glycol	%	*ASTM D2982		0.20	NEG	NEG

Customer Id: GFL018 Sample No.: GFL0066870 Lab Number: 05891118 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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

RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description	
Resample			?	We recommend an early resample to monitor this condition.	
Check Fluid Source			?	Confirm the source of the lubricant being utilized for top-up/fill.	
Check Glycol Access			?	We advise that you check for the source of the coolant leak.	

HISTORICAL DIAGNOSIS



24 Feb 2023 Diag: Don Baldridge

19 Aug 2022 Diag: Don Baldridge

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. There is no indication of any contamination in the oil. The BN level is low. The condition of the oil is acceptable for the time in service.



NORMAL



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.



14 Apr 2022 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.





OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL

X

Machine Id 910027

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (8 GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Test for glycol is positive. There is a high concentration of glycol present in the oil.

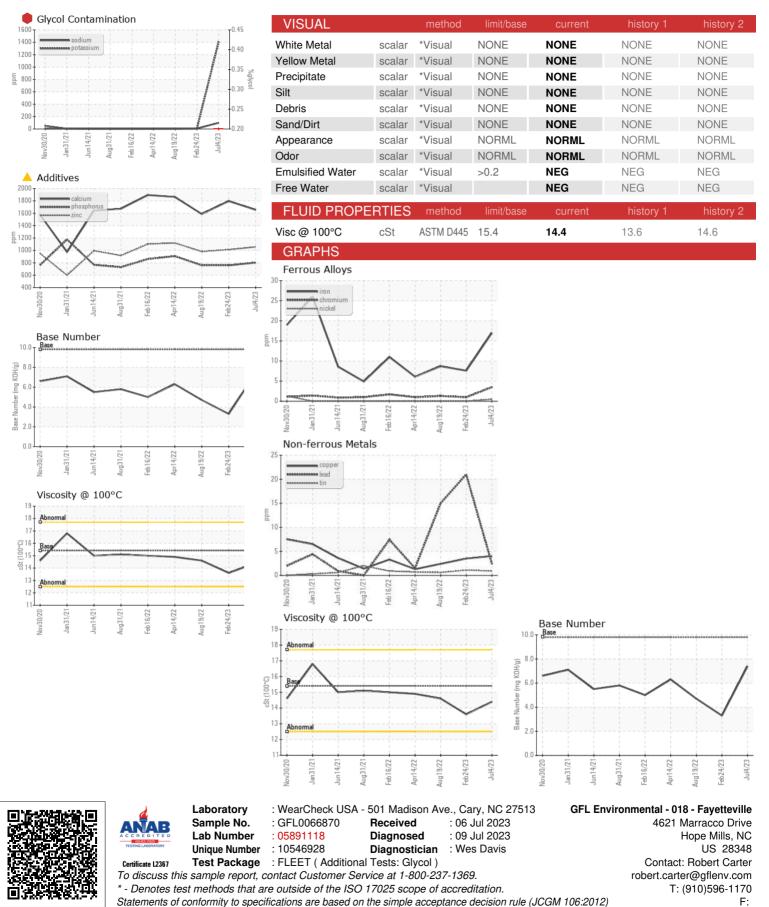
Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Sample Date Client Info 04 Jul 2023 24 Feb 2023 19 Aug 2022 Machine Age hrs Client Info 2632 2632 2632 2632 2632 150 Oil Age Client Info Changed NORMAL NORMAL CONTAMINATION method limit/base current history 1 history 2 1.0 <1.0 <1.0 WEAR METALS method limit/base current history 1 history 2 10 0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 1.0 1.0<	AL)		Nov2020 Ja	n2021 Jun2021 Aug2021	Feb 2022 Apr2022 Aug2022 Feb 20	23 Jul2023	
Sample Date Client Info 04 Jul 2023 24 Feb 2023 19 Aug 2022 Machine Age hrs Client Info 2632 2632 2632 2632 2632 2632 150 Oil Age hrs Client Info 2632 2632 150 Coloranged Coloranged Client Info Changed Changed NORMAL NORMAL South Age VC Method >3.0 <1.0 <1.0 <1.0 <1.0 VEAR METALS method limit/base current history 1 history 2 from ppm ASTM 051555 >2 <1 0 0 Vickel ppm ASTM 051555 >2 0 0 0 Silver ppm ASTM 051555 >2 0 0 0 0 Clead ppm ASTM 051555 >2 0 0 0 0 Viskel ppm ASTM 051555 >2 0 0 0 0 0 <t< th=""><th>SAMPLE INFOF</th><th>RMATION</th><th>method</th><th>limit/base</th><th>current</th><th>history 1</th><th>history 2</th></t<>	SAMPLE INFOF	RMATION	method	limit/base	current	history 1	history 2
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Machine Age hrs Client Info 2632 2632 2632 150 Oil Age hrs Client Info 2632 2632 150 Sample Status Image Image ABNORMAL NORMAL Sample Status Image Image ABNORMAL NORMAL CONTAMINATION method Image current History 1 History 2 Fuel WC Method 3.0 <1.0	•		Client Info		04 Jul 2023	24 Feb 2023	19 Aug 2022
Dil Age hrs Client Into 2632 2632 150 Changed Client Info Changed Ciant Alto Ciant Ciant<		hrs	Client Info		2632	2632	-
Dil Changed Client Info Changed SEVERE Changed Changed AnnoRMAL Sample Status method limit/base current Nistory 1 NoRMAL CONTAMINATION method limit/base current Nistory 1 Normal Fuel WC Method >3.0 <1.0	Oil Age	hrs	Client Info		2632	2632	150
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Fuel WC Method<>3.0 <1.0 <1.0 <1.0 WEAR METALS method limit/base current history 1 history 2 Iron ppm ASTM D5185m >90 17 8 9 Chromium ppm ASTM D5185m >20 4 1 1 Nickel ppm ASTM D5185m >2 <1 0 <1 Nickel ppm ASTM D5185m >2 <1 0 <1 Silver ppm ASTM D5185m >2 0 0 0 0 Aduminum ppm ASTM D5185m >20 2 2 2 2 Lead ppm ASTM D5185m >330 4 4 2 15 Cadmium ppm ASTM D5185m 0 0 0 0 0 ASTM D5185m 0 11 1 <1 1 1 Cadmium ppm ASTM D5185m 0 <th< td=""><td>Sample Status</td><td></td><td></td><td></td><th>SEVERE</th><td>ABNORMAL</td><td>NORMAL</td></th<>	Sample Status				SEVERE	ABNORMAL	NORMAL
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Prime ASTM D5185m >20 4 1 1 Nickel ppm ASTM D5185m >2 <1	WEAR METAI	S	method	limit/base	current	history 1	history 2
Nickel ppm ASTM D5185m >2 <1 0 0 Titanium ppm ASTM D5185m >2 <1	ron	ppm	ASTM D5185m	>90	17	8	9
Titanium ppm ASTM D5185m >2 <1 0 <1 Silver ppm ASTM D5185m >20 2 2 2 2 Aluminum ppm ASTM D5185m >20 2 2 2 2 Lead ppm ASTM D5185m >40 2 21 15 Copper ppm ASTM D5185m >330 4 4 2 Vanadium ppm ASTM D5185m >330 4 4 2 Vanadium ppm ASTM D5185m >330 4 4 2 Vanadium ppm ASTM D5185m 0 1 1 <1 Vanadium ppm ASTM D5185m 0 12 7 9 Barium ppm ASTM D5185m 0 1 1 <1 Maganese ppm ASTM D5185m 0 1 1 <1 Maganesium ppm ASTM D5185m 1010 654 1796 1587 Phosphorus ppm ASTM D5185m <	Chromium		ASTM D5185m	>20	4	1	1
Fitanium ppm ASTM D5185m >2 <1 0 <1 Silver ppm ASTM D5185m >20 2 2 2 ead ppm ASTM D5185m >20 2 2 2 ead ppm ASTM D5185m >40 2 21 15 Copper ppm ASTM D5185m >330 4 4 2 Vanadium ppm ASTM D5185m >15 <1	Nickel				<1	0	0
AuminumppmASTM D5185m>202222LeadppmASTM D5185m>4022115CopperppmASTM D5185m>330442TinppmASTM D5185m>15<1	Titanium	ppm	ASTM D5185m	>2	<1	0	<1
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Lead ppm ASTM D5185m >40 2 21 15 Copper ppm ASTM D5185m >330 4 4 2 Tin ppm ASTM D5185m >15 <1	Aluminum		ASTM D5185m	>20	2	2	2
Copper ppm ASTM D5185m >330 4 4 2 Tin ppm ASTM D5185m >15 <1	Lead		ASTM D5185m	>40	2	21	15
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Manganese ppm ASTM D5185m 0 1 1 <1 Magnesium ppm ASTM D5185m 1010 625 598 554 Calcium ppm ASTM D5185m 1070 1654 1796 1587 Phosphorus ppm ASTM D5185m 1070 1654 1796 1587 Phosphorus ppm ASTM D5185m 1070 1056 1012 981 Zinc ppm ASTM D5185m 1270 1056 1012 981 Sulfur ppm ASTM D5185m 2060 3264 2732 2420 CONTAMINANTS method limit/base current history 1 history 2 Silicon ppm ASTM D5185m >25 10 6 6 Sodium ppm ASTM D5185m >20 1401 6 2 Glycol % *ASTM D5185m >20 1401 6 2 Glycol % *ASTM D7848 >6 0.1 0.1 0.1 Nitration Abs/m	Barium	ppm	ASTM D5185m	0	0	0	0
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Calcium ppm ASTM D5185m 1070 ▲ 1654 1796 1587 Phosphorus ppm ASTM D5185m 1150 803 759 760 Zinc ppm ASTM D5185m 1270 1056 1012 981 Sulfur ppm ASTM D5185m 2060 3264 2732 2420 CONTAMINANTS method limit/base current history 1 history 2 Silicon ppm ASTM D5185m >25 10 6 6 Sodium ppm ASTM D5185m >25 10 6 2 Silicon ppm ASTM D5185m >25 10 6 2 Sodium ppm ASTM D5185m >20 ▲ 1401 6 2 Glycol % *ASTM D582 ● 0.20 NEG NEG INFRA-RED method limit/base current history 1 history 2 Soot % % *ASTM D7624 >20 11.7 12.1 13.5 Sulfation Abs/cm *ASTM D7415	Manganese	ppm	ASTM D5185m	0	1	1	<1
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CONTAMINANTS method limit/base current history 1 history 2 Silicon ppm ASTM D5185m<>25 10 6 6 Sodium ppm ASTM D5185m >25 10 6 6 Sodium ppm ASTM D5185m >20 ▲ 1401 6 2 Potassium ppm ASTM D5185m >20 ▲ 1401 6 2 Glycol % *ASTM D5185m >20 ▲ 1401 6 2 Solgrool % *ASTM D5185m >20 ▲ 1401 6 2 INFRA-RED method limit/base current history 1 history 2 Soot % % *ASTM D7844 >6 0.1 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 11.7 12.1 13.5 Sulfation Abs/.1mm *ASTM D7415 >30 23.7 26.5 26.9 FLUID DEGRADATION method limit/base current history 1 history 2 Oxidation Abs/.1mm	Zinc	ppm	ASTM D5185m	1270	1056	1012	981
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Sodium ppm ASTM D5185m ▲ 99 7 4 Potassium ppm ASTM D5185m >20 ▲ 1401 6 2 Glycol % *ASTM D2982 ● 0.20 NEG NEG INFRA-RED method limit/base current history 1 history 2 Soot % % *ASTM D7844 >6 0.1 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 11.7 12.1 13.5 Sulfation Abs/.1mm *ASTM D7415 >30 23.7 26.5 26.9 FLUID DEGRADATION method limit/base current history 1 history 2 Oxidation Abs/.1mm *ASTM D7414 >25 17.9 21.6 22.8	CONTAMINA	NTS	method	limit/base	current	history 1	history 2
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INFRA-RED method limit/base current history 1 history 2 Soot % % *ASTM D7844 >6 0.1 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 11.7 12.1 13.5 Sulfation Abs/.1mm *ASTM D7415 >30 23.7 26.5 26.9 FLUID DEGRADATION method limit/base current history 1 history 2 Oxidation Abs/.1mm *ASTM D7414 >25 17.9 21.6 22.8	Potassium	ppm	ASTM D5185m	>20	1401	6	2
Soot % % *ASTM D7844 >6 0.1 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 11.7 12.1 13.5 Sulfation Abs/.1mm *ASTM D7415 >30 23.7 26.5 26.9 FLUID DEGRADATION method limit/base current history 1 history 2 Oxidation Abs/.1mm *ASTM D7414 >25 17.9 21.6 22.8	Glycol	%	*ASTM D2982		0.20	NEG	NEG
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Sulfation Abs/.1mm *ASTM D7415 >30 23.7 26.5 26.9 FLUID DEGRADATION method limit/base current history 1 history 2 Oxidation Abs/.1mm *ASTM D7414 >25 17.9 21.6 22.8	Soot %	%	*ASTM D7844	>6	0.1	0.1	0.1
FLUID DEGRADATION method limit/base current history 1 history 2 Oxidation Abs/.1mm *ASTM D7414 >25 17.9 21.6 22.8	Nitration	Abs/cm	*ASTM D7624	>20	11.7	12.1	13.5
Oxidation Abs/.1mm *ASTM D7414 >25 17.9 21.6 22.8	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	26.5	26.9
	FLUID DEGRA	DATION	method	limit/base	current	history 1	history 2
Base Number (BN) mg KOH/g ASTM D2896 9.8 7.4 ▲ 3.3 4.7	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	21.6	22.8
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.4	A 3.3	4.7



OIL ANALYSIS REPORT



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