

RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

PROBLEMATIC	C TEST	RESULT	S			
Sample Status				ATTENTION	ABNORMAL	NORMAL
Sodium	ppm	ASTM D5185m		<u> </u>	<u> </u>	54

Customer Id: GFL172 Sample No.: GFL0092427 Lab Number: 05998351 Test Package: FLEET



To manage this report scan the QR code

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

RECOMMENDED	ACTIONS			
Action	Status	Date	Done By	Description
Resample			?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

14 Sep 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 air filter, air induction system, and any areas where dirt may enter the component. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The BN result indicates that there is suitable alkalinity remaining in the oil.



view report

18 Aug 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.

GLYCOL

16 Feb 2023 Diag: Jonathan Hester

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels remain high. Test for glycol is negative. 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

limit/base

GLYCOL

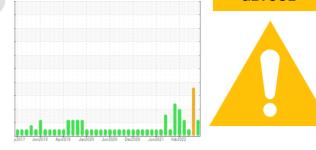
history2



Area ALEXANDER CITY Machine Id 10610

PETRO CANADA DURON SHP 15W40 (7 GAL)

SAMPLE INFORMATION method



current

history1

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels remain high. Test for glycol is negative.

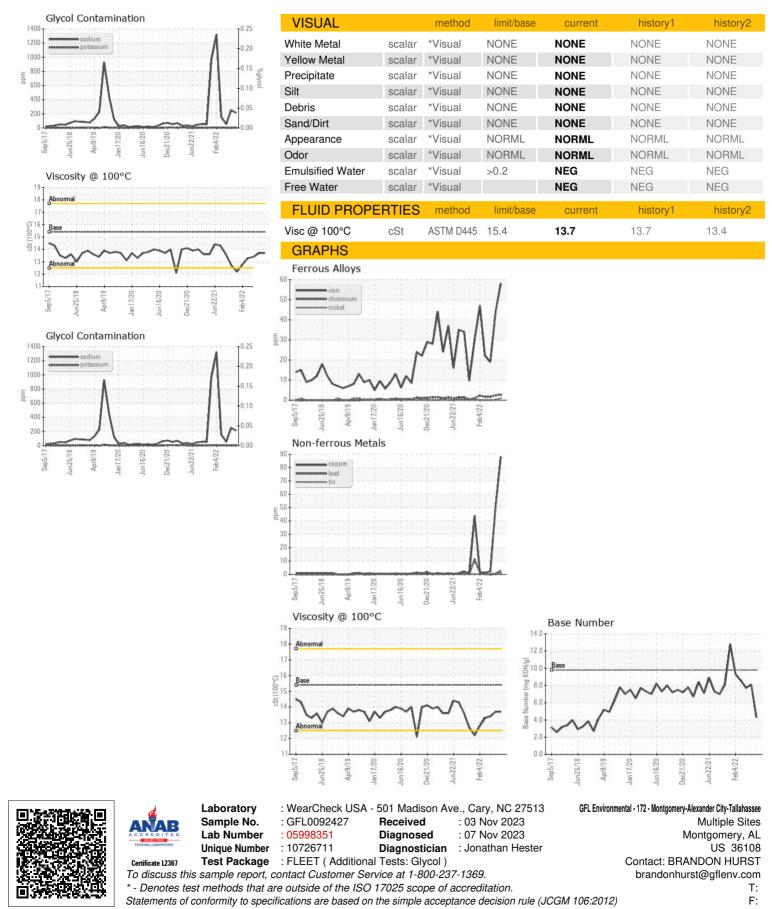
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		methou	iiiiii/base	Current	Thistory I	Thistory2
Sample Number		Client Info		GFL0092427	GFL0078475	GFL0081918
Sample Date		Client Info		18 Oct 2023	14 Sep 2023	18 Aug 2023
Machine Age	hrs	Client Info		22987	5734	22565
Oil Age	hrs	Client Info		22987	5734	22565
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				ATTENTION	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	58	44	19
Chromium	ppm	ASTM D5185m	>5	3	2	2
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>15	7	<u> </u>	6
Lead	ppm	ASTM D5185m	>25	3	<1	0
Copper	ppm	ASTM D5185m	>100	88	51	2
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	15	15	19
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	81	82	73
Manganese		AOTH DELOF	0	-	-1	<1
	ppm	ASTM D5185m	0	<1	1	< 1
Magnesium	ppm ppm	ASTM D5185m ASTM D5185m	1010	<1 894	926	947
Magnesium Calcium						
0	ppm	ASTM D5185m	1010	894	926	947
Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m	1010 1070	894 1105	926 1176	947 1184
Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150	894 1105 950	926 1176 1057	947 1184 1093
Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270	894 1105 950 1288	926 1176 1057 1290	947 1184 1093 1311
Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base	894 1105 950 1288 2749	926 1176 1057 1290 3438	947 1184 1093 1311 3700
Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	1010 1070 1150 1270 2060 limit/base	894 1105 950 1288 2749 current	926 1176 1057 1290 3438 history1	947 1184 1093 1311 3700 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	1010 1070 1150 1270 2060 limit/base	894 1105 950 1288 2749 current 24	926 1176 1057 1290 3438 history1 ▲ 26	947 1184 1093 1311 3700 history2 20
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base >25	894 1105 950 1288 2749 <u>current</u> 24 ▲ 214	926 1176 1057 1290 3438 history1 ▲ 26 ▲ 250	947 1184 1093 1311 3700 history2 20 54
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base >25	894 1105 950 1288 2749 <u>current</u> 24 ▲ 214 3	926 1176 1057 1290 3438 history1 ▲ 26 ▲ 250 3	947 1184 1093 1311 3700 history2 20 54 2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED	ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982	1010 1070 1150 1270 2060 limit/base >25 >20	894 1105 950 1288 2749 <u>current</u> 24 ▲ 214 3 NEG	926 1176 1057 1290 3438 history1 ▲ 26 ▲ 250 3 NEG	947 1184 1093 1311 3700 history2 20 54 2 2 NEG
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol	ppm ppm ppm ppm ppm TTS ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982	1010 1070 1150 1270 2060 limit/base >25 >20 limit/base >6	894 1105 950 1288 2749 current 24 ▲ 214 3 NEG current	926 1176 1057 1290 3438 history1 ▲ 26 ▲ 250 3 NEG history1	947 1184 1093 1311 3700 history2 20 54 2 2 NEG history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot %	ppm ppm ppm ppm ppm trs ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982 method *ASTM D7844	1010 1070 1150 1270 2060 limit/base >25 >20 limit/base >6	894 1105 950 1288 2749 current 24 ▲ 214 3 NEG current 1.3	926 1176 1057 1290 3438 ► 26 ► 250 3 NEG ► NEG ► Nistory1 0.7	947 1184 1093 1311 3700 history2 20 54 2 2 NEG history2 0.5
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982 *ASTM D2982 *ASTM D7844 *ASTM D7624	1010 1070 1150 2260 limit/base >25 >20 limit/base >20	894 1105 950 1288 2749 current 24 ▲ 214 3 NEG current 1.3 9.9	926 1176 1057 1290 3438 history1 ▲ 26 ▲ 250 3 NEG history1 0.7 10.6	947 1184 1093 1311 3700 history2 20 54 2 2 NEG NEG history2 0.5 7.9
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982 *ASTM D2982 *ASTM D7844 *ASTM D7624	1010 1070 1150 22060 limit/base >25 >20 limit/base >6 >20 >20 >30	894 1105 950 1288 2749 current 24 ▲ 214 3 NEG current 1.3 9.9 21.1	926 1176 1057 1290 3438	947 1184 1093 1311 3700 history2 20 54 20 54 2 2 NEG history2 0.5 7.9 19.1



OIL ANALYSIS REPORT



Submitted By: Lisa Reeves Page 4 of 4