

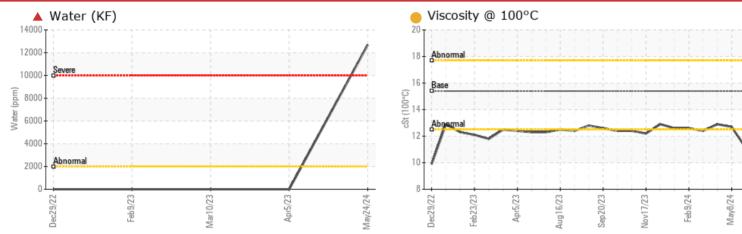
PROBLEM SUMMARY

Sample Rating Trend WATER

Machine Id 413026 Component

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. Please note that there was too much water present in the oil to perform an accurate viscosity test.

PROBLEMATIC TEST RESULTS

THOBELINATIO TEOT HEODETO								
Sample Status				SEVERE	NORMAL	NORMAL		
Water	%	ASTM D6304	>0.2	1.27				
ppm Water	ppm	ASTM D6304	>2000	12700				

Customer Id: GFL010 Sample No.: GFL0122173 Lab Number: 06193407 Test Package: FLEET



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To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 <u>jhester@wearcheckusa.com</u>

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			
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.			
Alert			?	Please note that there was too much water present in the oil to perform a viscosity test.			
Check Water Access			?	We advise that you check for the source of water entry.			

HISTORICAL DIAGNOSIS



08 May 2024 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.



18 Apr 2024 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.



\checkmark

NORMAL

14 Feb 2024 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

WATER

Machine Id **413026** Component **Diesel Engine** Fluid

PETRO CANADA DURON SHP 15W40 (8 GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. Please note that there was too much water present in the oil to perform an accurate viscosity test.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is a high concentration of water present in the oil.

Fluid Condition

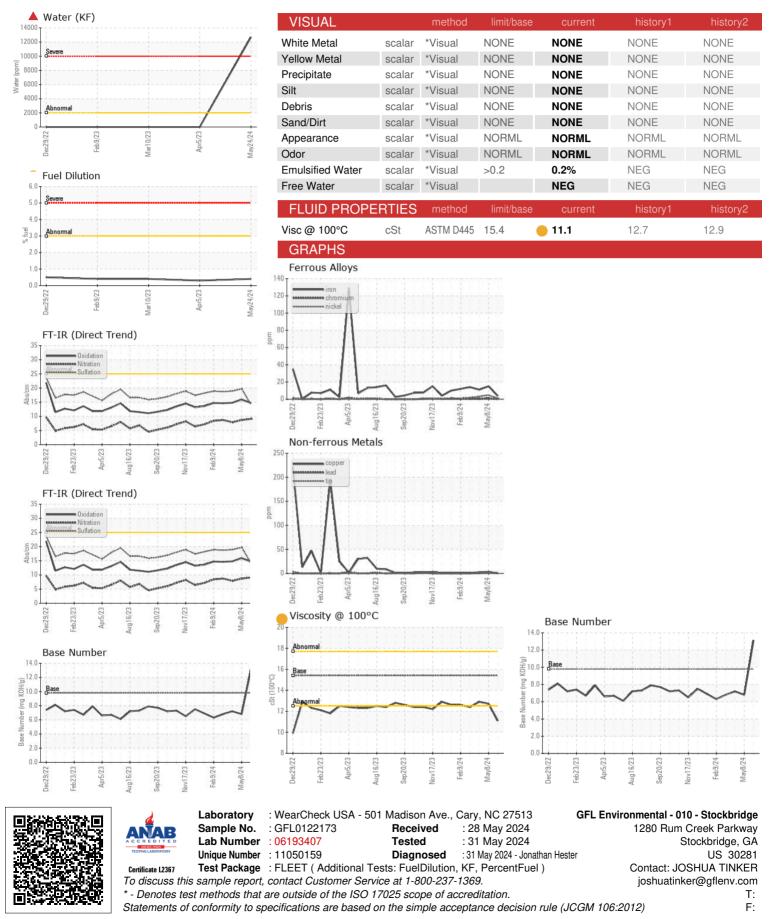
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

L)		ec2022 Feb2	023 Apr2023 Aug202	3 Sep2023 Nov2023 Feb2024	May2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122173	GFL0118032	GFL0118018
Sample Date		Client Info		24 May 2024	08 May 2024	18 Apr 2024
Machine Age	hrs	Client Info		3857	3724	3594
Dil Age	hrs	Client Info		133	565	435
Dil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				SEVERE	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	4	15	11
Chromium	ppm	ASTM D5185m	>20	0	1	<1
lickel	ppm	ASTM D5185m	>5	1	5	3
Fitanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m		3	3	2
ead	ppm	ASTM D5185m		<1	1	_ <1
Copper	ppm	ASTM D5185m		<1	3	2
Tin	ppm	ASTM D5185m		1	2	1
/anadium	ppm	ASTM D5185m	210	<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES	ppm	method	limit/base		history1	history2
Boron	ppm	ASTM D5185m	0	13	6	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	60	63
Manganese	ppm	ASTM D5185m		<1	1	<1
0			1010		830	901
Magnesium	ppm	ASTM D5185m ASTM D5185m	1070	839	1011	1107
	ppm			996		
Phosphorus	ppm	ASTM D5185m	1150	923	925	965
linc	ppm	ASTM D5185m	1270	1116	1128	1151
Sulfur	ppm	ASTM D5185m	2060	3138	2908	3263
CONTAMINAN		method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>25	3	6	4
Sodium	ppm	ASTM D5185m		6	7	7
Potassium	ppm	ASTM D5185m	>20	6	9	4
Fuel	%	ASTM D3524	>3.0	0.4	<1.0	<1.0
Vater	%	ASTM D6304	>0.2	1.27		
opm Water	ppm	ASTM D6304	>2000	12700		
INFRA-RED		method	limit/base		history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.4	0.3
	Abs/cm	*ASTM D7624	>20	9.1	8.7	7.9
Nitration					107	10.0
Nitration Sulfation	Abs/.1mm	*ASTM D7415	>30	14.1	19.7	18.9
			>30 limit/base		history1	history2
Sulfation						

Submitted By: JOSHUA TINKER



OIL ANALYSIS REPORT



Report Id: GFL010 [WUSCAR] 06193407 (Generated: 05/31/2024 18:03:16) Rev: 1

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