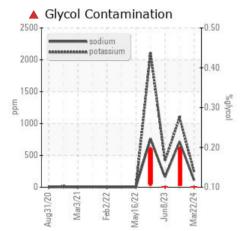


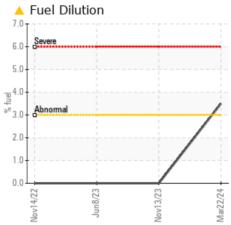
Whiteville NC Machine Id 10975

Component Diesel Engine

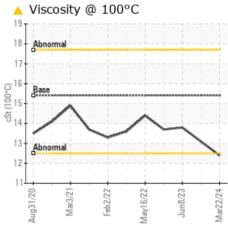
PETRO CANADA DURON SHP 15W40 (8 GAL)

COMPONENT CONDITION SUMMARY









RECOMMENDATION

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	SEVERE	SEVERE		
Potassium	ppm	ASTM D5185m	>20	<u> </u>	<u> </u>	4 16		
Fuel	%	ASTM D3524	>3.0	A 3.5	<1.0	<1.0		
Glycol	%	*ASTM D2982		0.10	▲ 0.20	▲ 0.10		
Visc @ 100°C	cSt	ASTM D445	15.4	A 12.4	13.1	13.8		

Sample Rating Trend

Customer Id: GFL015 Sample No.: GFL0096922 Lab Number: 06134498 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			
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.			
Flush System			?	We advise that you flush the component thoroughly before re-filling with oil.			
Resample			?	We recommend an early resample to monitor this condition.			
Check Glycol Access			?	We advise that you check for the source of the coolant leak.			

HISTORICAL DIAGNOSIS



13 Nov 2023 Diag: Wes Davis

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.All component wear rates are normal. Test for glycol is positive. There is a high concentration of glycol present in the oil. 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.



view report



08 Jun 2023 Diag: Jonathan Hester

We advise that you check for the source of the coolant leak. Check for low coolant level. 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. Test for glycol is positive. The BN result indicates that there is suitable alkalinity remaining in the oil.

14 Nov 2022 Diag: Jonathan Hester

GLYCOL

We advise that you check for the source of the coolant leak. Check for low coolant level. 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 high concentration of glycol present in the 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.

view report



OIL ANALYSIS REPORT

Area Whiteville NC Machine Id 10975

Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (8 GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition.

Wear

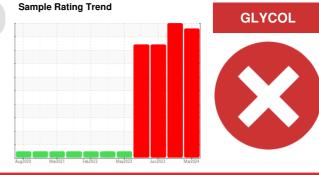
All component wear rates are normal.

Contamination

Test for glycol is positive. There is a moderate amount of fuel present in the oil. There is a high concentration of glycol present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

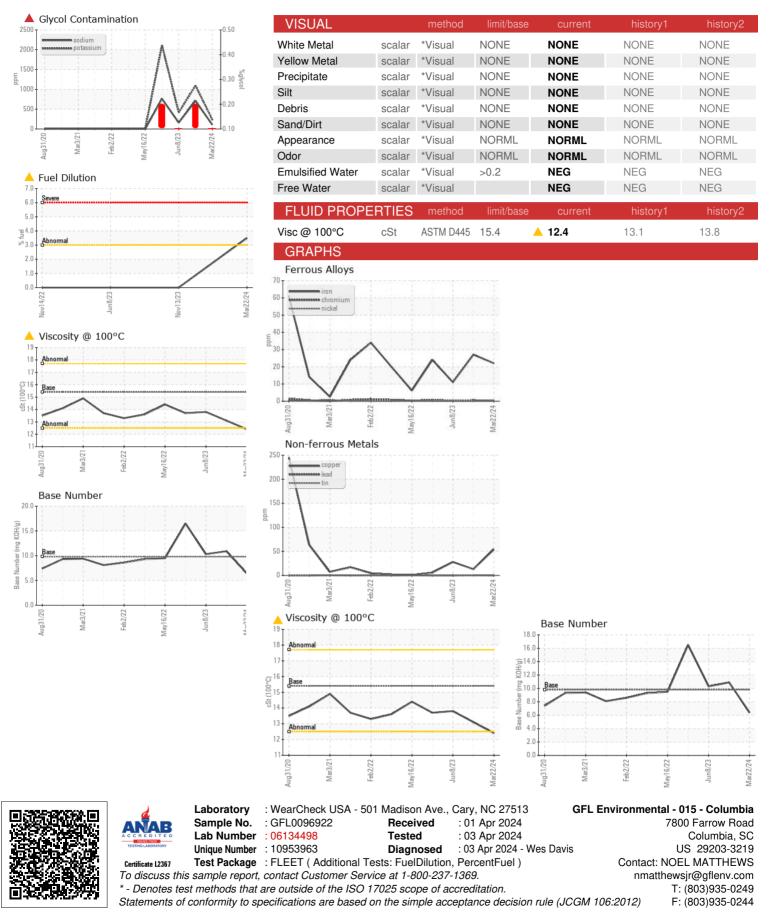
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0096922	GFL0099487	GFL0082201
Sample Date		Client Info		22 Mar 2024	13 Nov 2023	08 Jun 2023
Machine Age	hrs	Client Info		14742	47803	12463
Oil Age	hrs	Client Info		47803	13636	12463
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				SEVERE	SEVERE	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	22	27	11
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	1
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	54	13	28
Tin	ppm		>15	<1	0	0
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	8	14	5
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	60	86	200	90
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	769	442	885
Calcium	ppm	ASTM D5185m	1070	1010	1438	1049
Phosphorus	ppm	ASTM D5185m	1150	775	601	997
Zinc	ppm	ASTM D5185m	1270	1026	865	1200
Sulfur	ppm	ASTM D5185m	2060	2686	2270	3740
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	23	5
Sodium	ppm	ASTM D5185m		<u> </u>	712	1 61
Potassium	ppm	ASTM D5185m	>20	2 38	1 095	4 16
Fuel	%	ASTM D3524	>3.0	A 3.5	<1.0	<1.0
Glycol	%	*ASTM D2982		0.10	▲ 0.20	▲ 0.10
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.4	0.6	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.1	13.0	5.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	24.6	18.0
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Abs/1mm	*ASTM D7414	>25	19.3	24.4	14.6
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 9.8	19.3 6.4	24.4 10.9	14.6 10.3



OIL ANALYSIS REPORT



Submitted By: DAKOTA DABNEY

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