

PROBLEM SUMMARY

Sample Rating Trend

GLYCOL

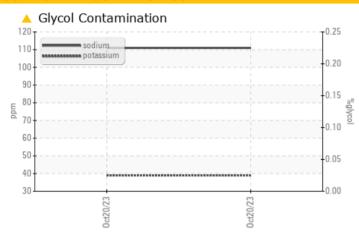


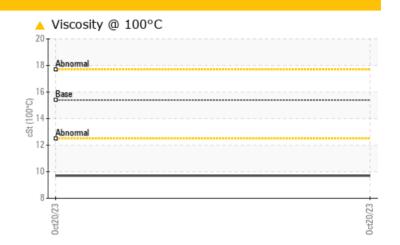
KENWORTH 422029

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS									
Sample Status				ABNORMAL					
Sodium	ppm	ASTM D5185m		<u> </u>					
Potassium	ppm	ASTM D5185m	>20	4 39					
Visc @ 100°C	cSt	ASTM D445	15.4	4 9.7					

Customer Id: GFL842 Sample No.: GFL0099164 Lab Number: 06005167 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 customerservice@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	Oil and filter change at the time of sampling has been noted.			
Change Filter			?	Oil and filter change at the time of sampling has been noted.			
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



OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL

KENWORTH 422029

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

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.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. Fuel content negligible.

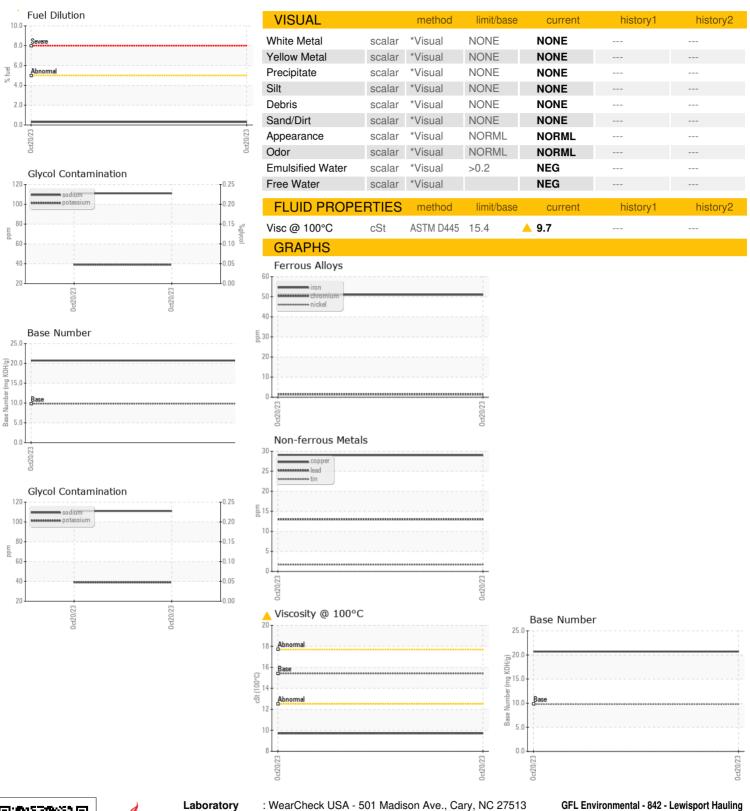
Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

iAL)				Oct2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0099164		
Sample Date		Client Info		20 Oct 2023		
Machine Age	hrs	Client Info		19416		
Oil Age	hrs	Client Info		307		
Oil Changed	1113	Client Info		Changed		
Sample Status		Oliciti IIIIo		ABNORMAL		
CONTAMINAT	IONI	method	limit/base			
Water	ION	WC Method		current NEG	history1	history2
	0					
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	51		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>4	1		
Γitanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>20	9		
_ead	ppm	ASTM D5185m	>40	13		
Copper	ppm	ASTM D5185m	>330	29		
Γin	ppm	ASTM D5185m	>15	2		
/anadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	35		
Barium	ppm	ASTM D5185m	0	<1		
Molybdenum	ppm	ASTM D5185m	60	62		
Manganese	ppm	ASTM D5185m	0	1		
Magnesium	ppm	ASTM D5185m	1010	843		
Calcium	ppm	ASTM D5185m	1070	1156		
Phosphorus	ppm	ASTM D5185m	1150	994		
Zinc	ppm	ASTM D5185m	1270	1248		
Sulfur	ppm	ASTM D5185m	2060	3359		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10		
Sodium	ppm	ASTM D5185m		<u> 111</u>		
Potassium	ppm	ASTM D5185m	>20	▲ 39		
-uel	%	ASTM D3524		0.3		
Glycol	%	*ASTM D2982		NEG		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.2		
Nitration	Abs/cm	*ASTM D7624	>20	21.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	8.9		
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.3		
Base Number (BN)	mg KOH/g	ASTM D2896		20.7		
			,			



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 06005167 : 10738929

Received : 13 Nov 2023 : GFL0099164 Diagnosed : 21 Nov 2023 Diagnostician : Jonathan Hester

Test Package : FLEET (Additional Tests: FuelDilution, Glycol, PercentFuel) To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

GFL Environmental - 842 - Lewisport Hauling

4995 US Highway 60 West Lewisport, KY US 42351

Contact: Robert Thibault robert.thibault@gflenv.com T: (193)123-7604