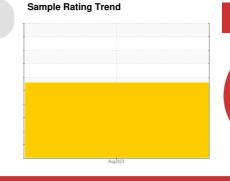


PROBLEM SUMMARY



SOOT

23

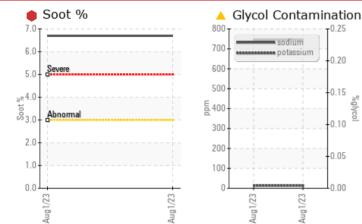
Augl

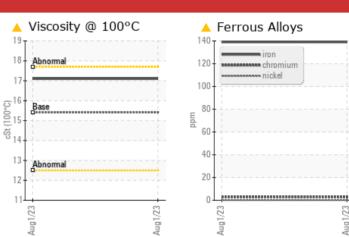


Diesel Engine Fluid

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. We advise that you check for faulty combustion, plugged air filters, or aftercoolers. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value.

PROBLEMATIC TEST RESULTS

0.25

0.20

0.15

0.10

0.05

0.00

Aug1

%glycol

Sample Status				SEVERE				
Iron	ppm	ASTM D5185m	>110	<u> </u>				
Sodium	ppm	ASTM D5185m		A 746				
Soot %	%	*ASTM D7844	>3	6.7				
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	0.0				
Visc @ 100°C	cSt	ASTM D445	15.4	<u> </u>				

Customer Id: GFL842 Sample No.: GFL0087042 Lab Number: 05925903 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 ihester@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.			
Alert			?	NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value.			
Check Combustion			?	We advise that you check for faulty combustion, plugged air filters, or aftercoolers.			
Check Glycol Access			?	We advise that you check for the source of the coolant leak.			

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT



Machine Id PETERBILT 828054-101291

Diesel Engine

Fluic

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. We advise that you check for faulty combustion, plugged air filters, or aftercoolers. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value.

🔺 Wear

Cylinder, crank, or cam shaft wear is indicated.

Contamination

Sodium and/or potassium levels are high. There is an abnormal amount of solids and carbon present in the oil.

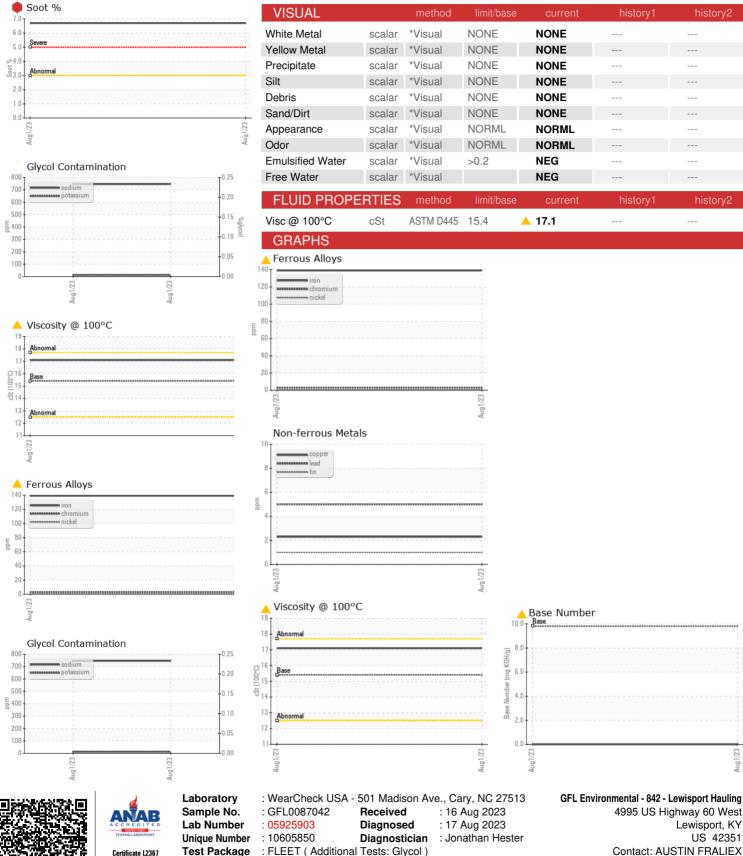
Fluid Condition

The oil viscosity is higher than normal. The BN level is low.

GAL)				Aug2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0087042		
Sample Date		Client Info		01 Aug 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				SEVERE		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	1 39		
Chromium	ppm	ASTM D5185m	>4	3		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	4		
Lead	ppm	ASTM D5185m	>45	5		
Copper	ppm	ASTM D5185m	>85	2		
Tin	ppm	ASTM D5185m	>4	1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	13		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60 0	82 2		
Manganese	ppm	ASTM D5185m ASTM D5185m	1010	2 923		
Magnesium Calcium	ppm ppm	ASTM D5185m	1070	923 1136		
Phosphorus	ppm	ASTM D5185m	1150	1021		
Zinc	ppm	ASTM D5185m	1270	1280		
Sulfur	ppm	ASTM D5185m	2060	3689		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	18		
Sodium	ppm	ASTM D5185m	200	<u>∧</u> 746		
Potassium	ppm	ASTM D5185m	>20	13		
Glycol	%	*ASTM D2982		NEG		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	6.7		
Nitration	Abs/cm	*ASTM D7624	>20	15.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	31.7		
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9		
Base Number (BN)	mg KOH/g	ASTM D2896		<u> </u>		
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OIL ANALYSIS REPORT



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.

4995 US Highway 60 West Lewisport, KY US 42351 Contact: AUSTIN FRALIEX afraliex@gflenv.com T: (270)625-6807 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: AUSTIN FRALIEX - GFL842

history
