

# **PROBLEM SUMMARY**

# Sample Rating Trend



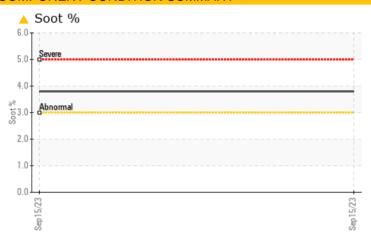




Machine Id
423065
Component
Diesel Engine
Fluid

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

# **COMPONENT CONDITION SUMMARY**



# RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

# PROBLEMATIC TEST RESULTS Sample Status ABNORMAL -- -- Soot % \*ASTM D7844 >3 A 3.8 -- --

Customer Id: GFL963
Sample No.: GFL0090349
Lab Number: 05956891
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

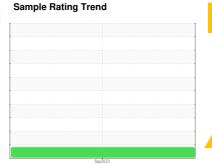
To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS								
Action	Status	Date	Done By	Description				
Change Filter			?	We recommend you service the filters on this component.				

# HISTORICAL DIAGNOSIS



# **OIL ANALYSIS REPORT**









423065 Component **Diesel Engine** 

PETRO CANADA DURO

# **DIAGNOSIS**

# Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

# Wear

All component wear rates are normal.

# Contamination

There is an abnormal amount of solids and carbon present in the oil.

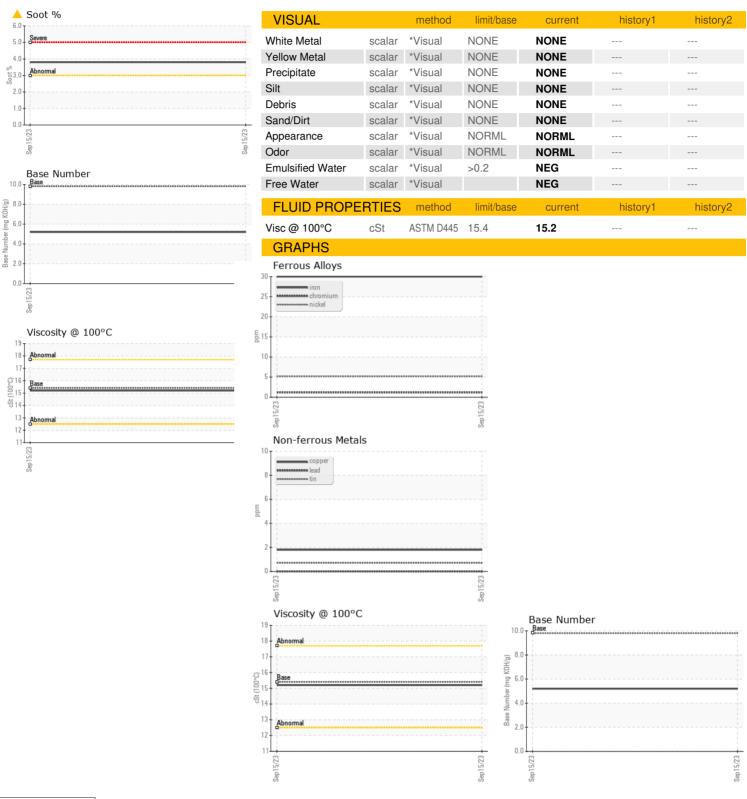
# **Fluid Condition**

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

N CHD 15W/0 (	GAL)					
N SHP 15W40 (	GAL)			Sep2023		
SAMPLE INFOR	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090349		
Sample Date		Client Info		15 Sep 2023		
Machine Age	hrs	Client Info		20306		
Oil Age	hrs	Client Info		20306		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	30		
Chromium	ppm	ASTM D5185m	>20	1		
Nickel	ppm	ASTM D5185m	>2	5		
Titanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	2		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	2		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	9		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	54		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	1010	882		
Calcium	ppm	ASTM D5185m	1070	1194		
Phosphorus	ppm	ASTM D5185m	1150	948		
Zinc	ppm	ASTM D5185m	1270	1160		
Sulfur	ppm	ASTM D5185m	2060	3672		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13		
Sodium	ppm	ASTM D5185m		21		
Potassium	ppm	ASTM D5185m	>20	3		
Fuel	%	ASTM D3524	>5	<1.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	▲ 3.8		
Nitration	Abs/cm	*ASTM D7624	>20	15.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	30.6		
ELLUD DECDA						
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
PLUID DEGRAI  Oxidation	DATION Abs/.1mm	method *ASTM D7414	limit/base >25	current 22.4	history1	history2
			>25			



# **OIL ANALYSIS REPORT**







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

: GFL0090349 : 05956891 : 10658104

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

Diagnosed

: 20 Sep 2023 : 22 Sep 2023 Diagnostician : Don Baldridge

Test Package : FLEET ( Additional Tests: FuelDilution ) 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 - 963 - Peoria HC Disposal

1113 N. Swords Ave. West Peoria, IL US 61604

Contact: Corey Dozard cdozard@gflenv.com

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