

PROBLEM SUMMARY

Sample Rating Trend

DIRT

Jun 2024

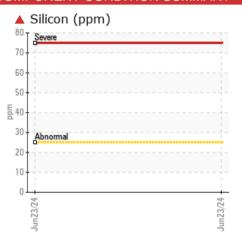
Machine Id **714030**

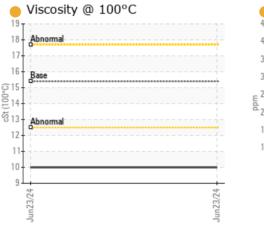
Component

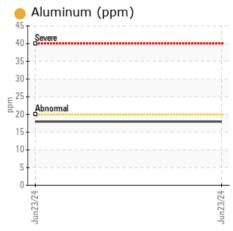
Diesel Engine

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

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. 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.

PROBLEMATIC TEST RESULTS

111000000000000000000000000000000000000								
Sample Status			SEVERE					
Silicon	ppm	ASTM D5185m	>25	▲ 75				

Customer Id: GFL859 Sample No.: GFL0102253 Lab Number: 06217893 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

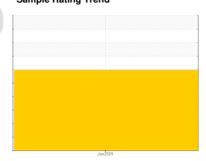
RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	We recommend that you drain the oil and perform a filter service on this component if not already done.			
Change Filter			?	We recommend that you drain the oil and perform a filter service on this component if not already done.			
Resample			?	We recommend an early resample to monitor this condition.			
Check Dirt Access			?	We advise that you check the air filter, air induction system, and any areas where dirt may enter the component.			

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend





714030

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. 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.

Wear

All component wear rates are normal.

▲ Contamination

Fuel content negligible. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

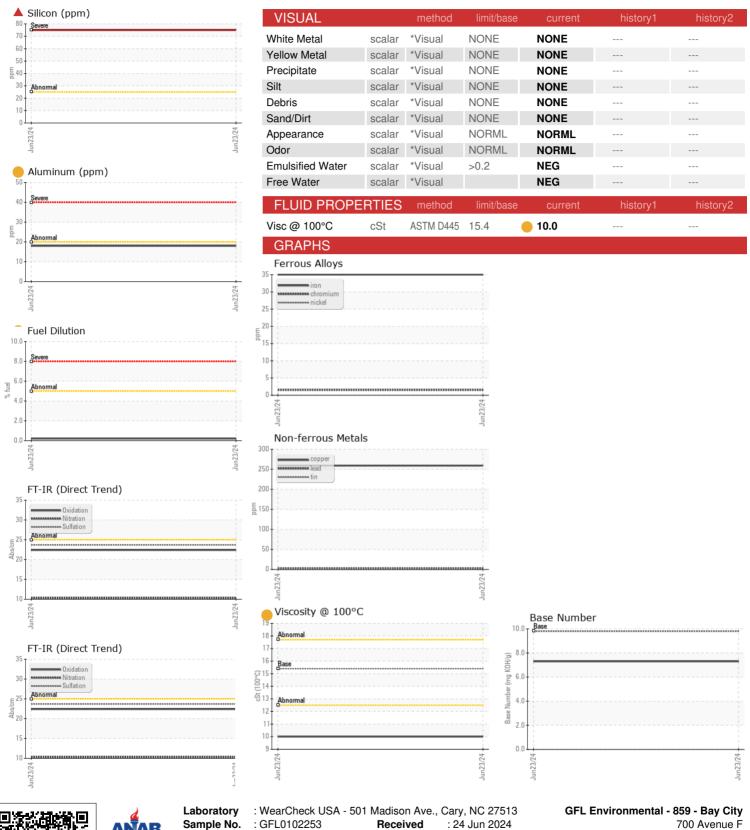
Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type. The oil is no longer serviceable due to the presence of contaminants.

GAL)				Jun 2024			
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
	W/ TIOIT	Client Info	mmobacc	GFL0102253			
Sample Number							
Sample Date	hue	Client Info		23 Jun 2024			
Machine Age	hrs	Client Info		0			
Oil Age	hrs	Client Info		0			
Oil Changed		Client Info		N/A SEVERE			
Sample Status				SEVERE			
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Water		WC Method	>0.2	NEG			
Glycol		WC Method		NEG			
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	35			
Chromium	ppm	ASTM D5185m	>20	2			
Nickel	ppm	ASTM D5185m	>4	2			
Titanium	ppm	ASTM D5185m		<1			
Silver	ppm	ASTM D5185m	>3	1			
Aluminum	ppm	ASTM D5185m	>20	<u> </u>			
Lead	ppm	ASTM D5185m	>40	1			
Copper	ppm	ASTM D5185m	>330	259			
Tin	ppm	ASTM D5185m	>15	4			
Vanadium	ppm	ASTM D5185m		<1			
Cadmium	ppm	ASTM D5185m		<1			
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	168			
Barium	ppm	ASTM D5185m	0	2			
Molybdenum	ppm	ASTM D5185m	60	127			
Manganese	ppm	ASTM D5185m	0	5			
Magnesium	ppm	ASTM D5185m	1010	703			
Calcium	ppm	ASTM D5185m	1070	1438			
Phosphorus	ppm	ASTM D5185m	1150	704			
Zinc	ppm	ASTM D5185m	1270	862			
Sulfur	ppm	ASTM D5185m	2060	2354			
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	1 75			
Sodium	ppm	ASTM D5185m		2			
Potassium	ppm	ASTM D5185m	>20	45			
Fuel	%	ASTM D3524	>5	0.2			
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.4			
Nitration	Abs/cm	*ASTM D7624	>20	10.3			
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7			
FLUID DEGRA	OATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.4			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.3			



OIL ANALYSIS REPORT





Certificate 12367

Sample No.

Lab Number : 06217893

: GFL0102253 Unique Number : 11096090

Received

Tested Diagnosed Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

: 26 Jun 2024 : 27 Jun 2024 - Jonathan Hester

Bay City, TX US 77414 Contact: JONATHON BROWN jonathon.brown@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - 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)

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F: