

PROBLEM SUMMARY





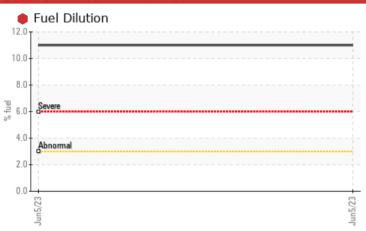


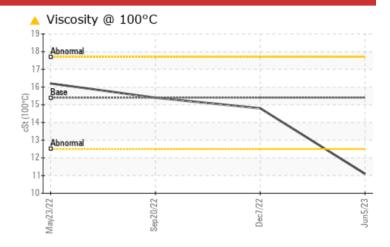


Machine Id 4626M Component Diesel Engine

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

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMA ⁻	TIC TES	T RESULTS							
Sample Status				SEVERE	NORMAL	NORMAL			
Fuel	%	ASTM D3524	>3.0	11.0	<1.0	<1.0			
Visc @ 100°C	cSt	ΔSTM D445	15.4	A 11 1	14.8	15.4			

Customer Id: GFL405 Sample No.: GFL0072952 Lab Number: 05885408 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 Description Action **Status** Date Done By ? 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 Fuel/injector ? We advise that you check the fuel injection system. System

HISTORICAL DIAGNOSIS

07 Dec 2022 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



20 Sep 2022 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report

23 May 2022 Diag: Jonathan Hester

NORMAL



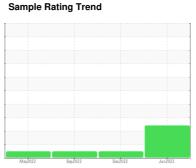
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

NDT







Machine Id
4626M
Component
Diesel Engine

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

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. 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

There is a high amount of fuel present in the oil.

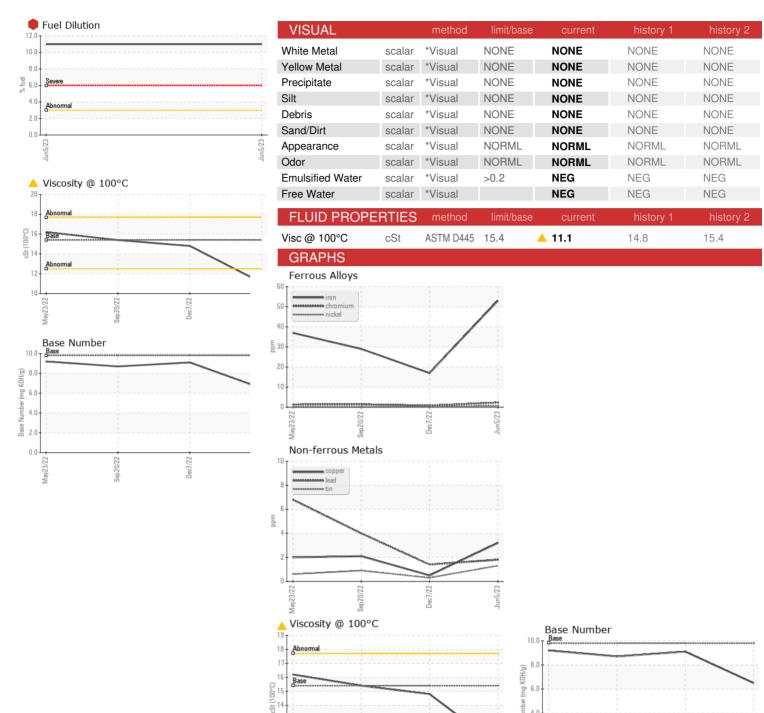
Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

N SHP 15W4U (Q15)	May202	2 Sep 2022	Dec2022 Ju	un2023	
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0072952	GFL0060722	GFL0060689
Sample Date		Client Info		05 Jun 2023	07 Dec 2022	20 Sep 2022
Machine Age	hrs	Client Info		18968	18071	17494
Oil Age	hrs	Client Info		897	577	540
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history 1	history 2
ron	ppm	ASTM D5185m	>90	53	17	29
Chromium	ppm	ASTM D5185m	>20	2	<1	1
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		2	3	4
Lead	ppm	ASTM D5185m	>40	2	1	4
Copper	ppm	ASTM D5185m	>330	3	<1	2
Гin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m	>10	0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	36	5	6
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm	ASTM D5185m	60	40	62	69
Manganese	ppm	ASTM D5185m	0	6	<1	<1
Magnesium	ppm	ASTM D5185m	1010	453	984	1104
Calcium	ppm	ASTM D5185m	1070	1436	1178	1301
Phosphorus	ppm	ASTM D5185m	1150	630	1026	1144
Zinc	ppm	ASTM D5185m	1270	828	1383	1434
Sulfur	ppm	ASTM D5185m	2060	2352	3328	3670
CONTAMINAN	ITS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	22	5	5
Sodium	ppm	ASTM D5185m		19	7	2
Potassium	ppm	ASTM D5185m	>20	3	<1	0
Fuel	%	ASTM D3524	>3.0	11.0	<1.0	<1.0
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>6	0.6	0.3	0.2
Nitration	Abs/cm	*ASTM D7624		13.6	11.0	13.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.3	24.3	28.2
FLUID DEGRA	OITAC	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	28.5	23.2	29.4
Base Number (BN)	mg KOH/g			6.5	9.1	8.7
-accitation (DIV)	mg nong	.101111 02000	3.0	0.0	0.1	0.7



OIL ANALYSIS REPORT







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

: 05885408 : 10535891

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: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Jun 2023 : GFL0072952

Dec7/22

Diagnosed : 30 Jun 2023 Diagnostician : Don Baldridge

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Test Package : FLEET (Additional Tests: FuelDilution, 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 - 405 - Arbor Hills

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