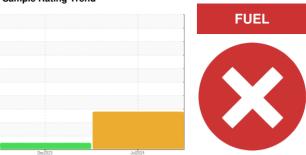


PROBLEM SUMMARY

Sample Rating Trend



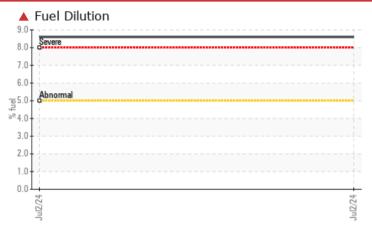
Machine Id

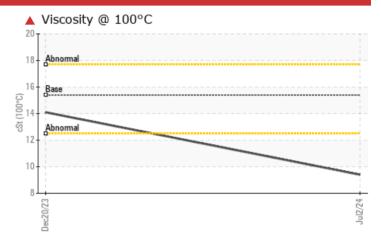
427161 - SW4713

Diesel Engine

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

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	NORMAL				
Fuel	%	ASTM D3524	>5	& 8.6	<1.0				
Visc @ 100°C	cSt	ASTM D445	15.4	9.4	14.1				

Customer Id: GFL977 **Sample No.:** GFL0066533 Lab Number: 06229804 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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 from the component if this has not already been done.		
Resample			?	We recommend an early resample to monitor this condition.		
Check Fuel/injector System			?	We advise that you check the fuel injection system.		

HISTORICAL DIAGNOSIS

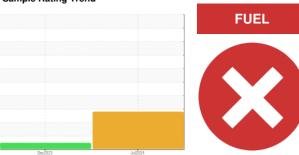
20 Dec 2023 Diag: Don Baldridge
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

427161 - SW4713

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- 0

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. 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. Tests confirm the presence of fuel in the oil.

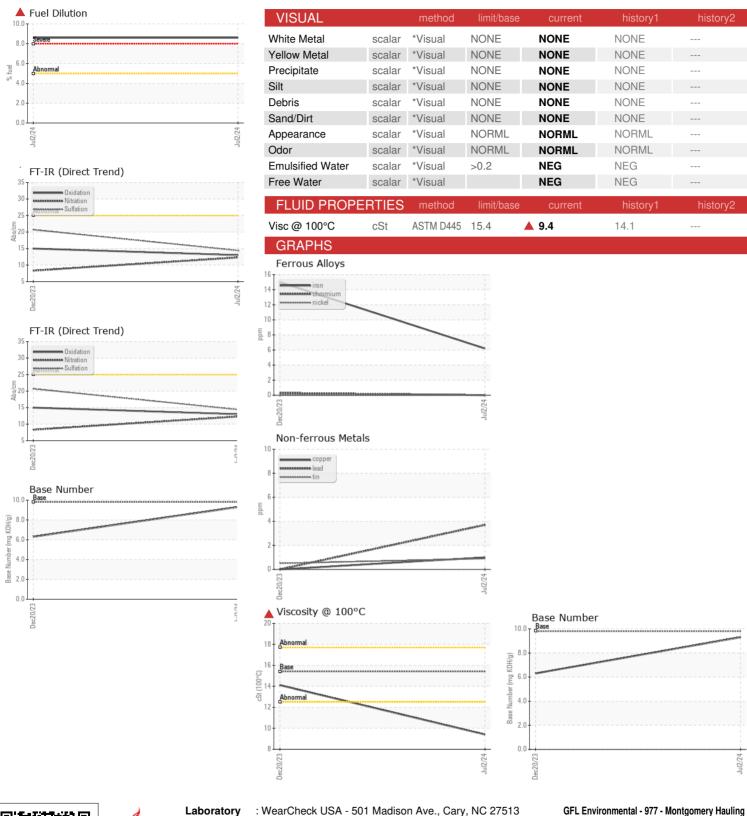
▲ Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

iAL)			Dec2023	Jul2024		
SAMPLE INFOR	MATION	method	limit/base	ourrent	history	history?
	IVIATION		IIIIII/Dase		history1	history2
Sample Number		Client Info		GFL0066533	GFL0066513	
Sample Date		Client Info		02 Jul 2024	20 Dec 2023	
Machine Age	mls	Client Info		411830	387233	
Oil Age	mls	Client Info		411830 N/A	387233	
Oil Changed		Client Info			Not Changd	
Sample Status	1011			SEVERE	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
<i>N</i> ater		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	6	15	
Chromium	ppm	ASTM D5185m	>20	0	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	7	
_ead	ppm	ASTM D5185m	>40	4	0	
Copper	ppm	ASTM D5185m	>330	1	0	
Γin	ppm	ASTM D5185m	>15	<1	<1	
/anadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	17	112	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	47	49	
Manganese	ppm	ASTM D5185m	0	0	<1	
Magnesium	ppm	ASTM D5185m	1010	42	216	
Calcium	ppm	ASTM D5185m	1070	2471	1894	
Phosphorus	ppm	ASTM D5185m	1150	1118	1070	
Zinc	ppm	ASTM D5185m	1270	1299	1229	
Sulfur	ppm	ASTM D5185m	2060	3947	3346	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	8	
Sodium	ppm	ASTM D5185m		2	0	
Potassium	ppm	ASTM D5185m	>20	6	16	
-uel	%	ASTM D3524	>5	▲ 8.6	<1.0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.4	
Nitration	Abs/cm	*ASTM D7624		12.3	8.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	14.4	20.7	
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.0	15.0	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.3	6.3	



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

Lab Number : 06229804

: GFL0066533

Received : 08 Jul 2024 **Tested** Unique Number : 11113297 Diagnosed

: 11 Jul 2024 Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

: 11 Jul 2024 - Wes Davis

17851 Highway 105 E Conroe, TX US 77306 Contact: CHRIS YOUNG

christophery@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)

Report Id: GFL977 [WUSCAR] 06229804 (Generated: 07/11/2024 09:59:46) Rev: 1

Submitted By: Erik Bazaldua

T:

F: