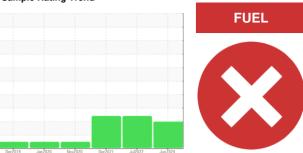


PROBLEM SUMMARY

Sample Rating Trend



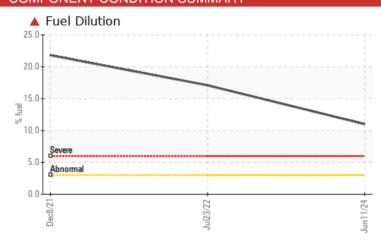
Machine Id

Blue Bird 3929

Diesel Engine

PETRO CANADA DURON SHP 10W30 (18 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.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	SEVERE	SEVERE			
Fuel	%	ASTM D3524	>3.0	11.0	▲ 17.1	1 21.8			

Customer Id: ICSB370 Sample No.: PCA0112481 Lab Number: 06215302 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 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 System			?	We advise that you check the fuel injection system.			

HISTORICAL DIAGNOSIS

23 Jul 2022 Diag: Jonathan Hester

FUEL



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. All component wear rates are normal. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.





08 Dec 2021 Diag: Jonathan Hester

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. All component wear rates are normal. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.



NORMAL



09 Nov 2020 Diag: Wes Davis

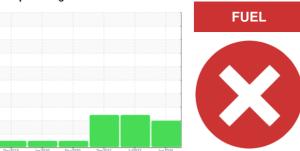
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

Blue Bird 3929

Diesel Engine

PETRO CANADA DURON SHP 10W30 (18 C

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.

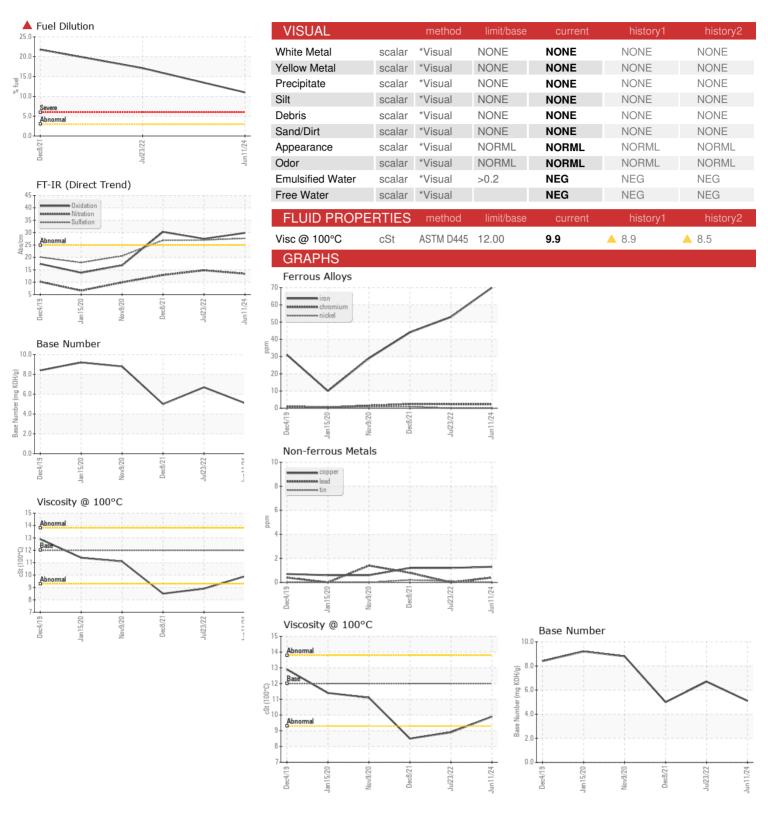
Fluid Condition

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

QTS)		Dec2019	Jan2020 Nov2020	Dec2021 Jul2022	Jun2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0112481	PCA0045599	PCA0045489
Sample Date		Client Info		11 Jun 2024	23 Jul 2022	08 Dec 2021
Machine Age	mls	Client Info		202137	169996	156033
Oil Age	mls	Client Info		32141	13963	12234
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	SEVERE	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>130	70	53	44
Chromium	ppm	ASTM D5185m	>10	2	2	2
Nickel	ppm	ASTM D5185m	>4	0	0	1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	13	7	6
Lead	ppm	ASTM D5185m	>20	<1	0	<1
Copper	ppm	ASTM D5185m	>125	1	1	1
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Antimony	ppm	ASTM D5185m				<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	0	1	<1
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	50	54	50	49
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	866	751	805
Calcium	ppm	ASTM D5185m	1050	1015	902	893
Phosphorus	ppm	ASTM D5185m	995	931	818	803
Zinc	ppm	ASTM D5185m	1180	1147	1025	984
Sulfur	ppm	ASTM D5185m	2600	3098	2439	2118
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	4
Sodium	ppm	ASTM D5185m		4	2	2
Potassium	ppm	ASTM D5185m	>20	4	2	2
Fuel	%	ASTM D3524	>3.0	11.0	▲ 17.1	1 21.8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	1.1	1.4	1.1
Nitration	Abs/cm	*ASTM D7624	>20	13.4	14.8	12.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.7	27.0	26.9
FLUID DEGRAE	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	29.9	27.5	30.3
Base Number (BN)	mg KOH/g	ASTM D2896		5.1	6.7	5



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: PCA0112481 Lab Number : 06215302 Unique Number : 11088166

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Jun 2024 **Tested** : 24 Jun 2024

Diagnosed

: 24 Jun 2024 - Don Baldridge Test Package : FLEET (Additional Tests: PercentFuel)

Contact: Chad Ingold c.ingold@illinois-central.com T: (618)466-5400

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) ICSB370 - Alton

Godfrey, IL

US 62035

4525 North Alby Road