

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

BLUE BIRD 116

Component Diesel Engine

Fluid PETRO CANADA DURON HP 15W40 (--- GAL)

DIAGNOSIS

A Recommendation

We advise that you check the fuel injection system. 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 BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0905976	WC0905889	WC0792744
Sample Date		Client Info		30 May 2024	13 Feb 2024	18 Dec 2023
Machine Age	mls	Client Info		154609	0	139497
Oil Age	mls	Client Info		0	0	5000
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				SEVERE	NORMAL	ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	2	29	17
Chromium	ppm	ASTM D5185m		= <1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		10	5	4
Lead	ppm	ASTM D5185m	>40	0	0	2
Copper	ppm	ASTM D5185m	>330	<1	1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		1	6	9
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		8	57	62
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		53	929	910
Calcium	ppm	ASTM D5185m		79	1111	1054
Phosphorus	ppm	ASTM D5185m		44	937	947
Zinc	ppm	ASTM D5185m		41	1195	1239
Sulfur	ppm	ASTM D5185m		56	2871	3042
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	4	3
Sodium	ppm	ASTM D5185m		30	2	2
Potassium	ppm	ASTM D5185m	>20	6	9	42
Fuel	%	ASTM D3524	>5	▲ 8.2	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	1.5	0.8
Nitration	Abs/cm	*ASTM D7624	>20	8.5	11.6	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	22.8	19.7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	19.1	15.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	7.3	8.6



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NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

Lead (ppm)

4/23

L'la

F

Silicon (ppm)

4/23

l'of

Apr14/23

un29/23

Base Number

0

Se

Ab

Base

Chromium (ppm)

50/02u

NEG

NEG

12.1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

12.6

Sep 13/23

Sep13/23

Sen1

Sen 13/23

WAYNE CO SCHOOL BUS GARAGE

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

NEG

NEG

13.4

eb 13/24

eb13/24

eb 13/24

Feb 13/24

GOLDSBORO, NC

30.72

av20/71

Dec18/23

Dec18/23

Dec18/23

Dec18/23

1603 SALEM CHURCH RD

Contact: BRANDON BRIGGS

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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