

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
BLUE BIRD 003039
 Component
Diesel Engine
 Fluid
NOT GIVEN (18)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

Metal levels are typical for a components first oil change.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0091575	---	---
Sample Date	Client Info		08 Dec 2023	---	---
Machine Age	mls Client Info		124460	---	---
Oil Age	mls Client Info		124460	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			NORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	---	---
Water	WC Method	>0.2	NEG	---	---
Glycol	WC Method		NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>100	93	---	---
Chromium	ppm ASTM D5185m	>20	2	---	---
Nickel	ppm ASTM D5185m	>4	<1	---	---
Titanium	ppm ASTM D5185m		0	---	---
Silver	ppm ASTM D5185m	>3	0	---	---
Aluminum	ppm ASTM D5185m	>20	7	---	---
Lead	ppm ASTM D5185m	>40	<1	---	---
Copper	ppm ASTM D5185m	>330	2	---	---
Tin	ppm ASTM D5185m	>15	<1	---	---
Vanadium	ppm ASTM D5185m		<1	---	---
Cadmium	ppm ASTM D5185m		0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m		3	---	---
Barium	ppm ASTM D5185m		0	---	---
Molybdenum	ppm ASTM D5185m		69	---	---
Manganese	ppm ASTM D5185m		<1	---	---
Magnesium	ppm ASTM D5185m		1059	---	---
Calcium	ppm ASTM D5185m		1189	---	---
Phosphorus	ppm ASTM D5185m		1049	---	---
Zinc	ppm ASTM D5185m		1343	---	---
Sulfur	ppm ASTM D5185m		2763	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25	6	---	---
Sodium	ppm ASTM D5185m		1	---	---
Potassium	ppm ASTM D5185m	>20	7	---	---

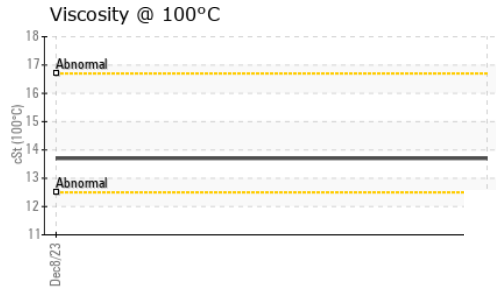
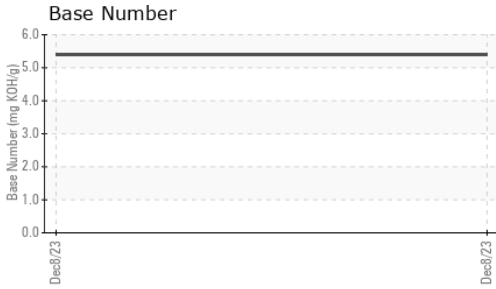
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3	1.5	---	---
Nitration	Abs/cm *ASTM D7624	>20	17.2	---	---
Sulfation	Abs/.1mm *ASTM D7415	>30	31.5	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	33.8	---	---
Base Number (BN)	mg KOH/g ASTM D2896		5.4	---	---

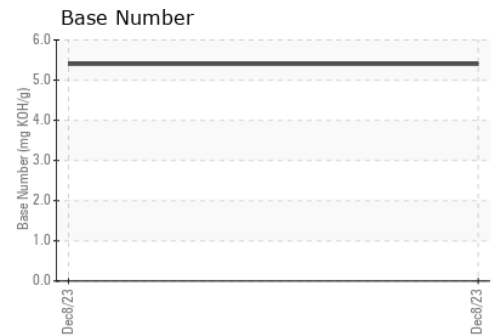
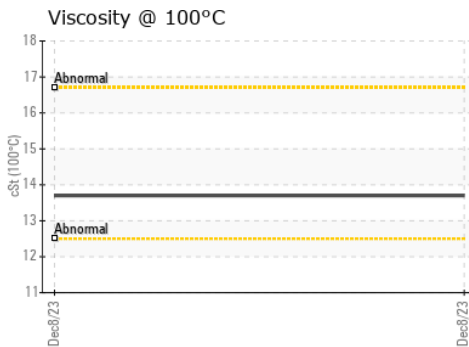
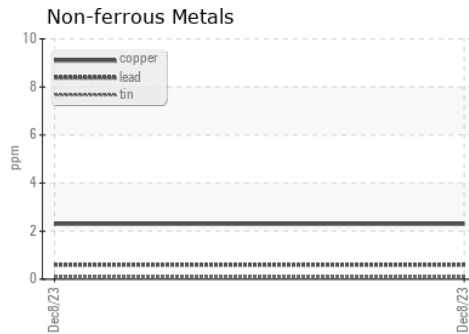
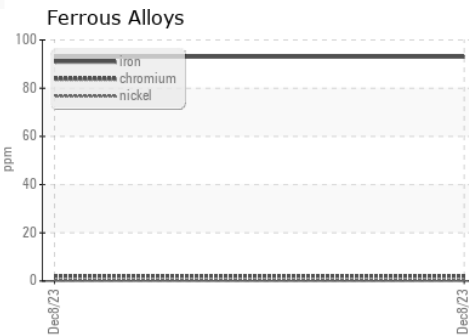
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.7	---	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0091575 **Received** : 20 Dec 2023
Lab Number : **06040325** **Diagnosed** : 21 Dec 2023
Unique Number : 10795554 **Diagnostician** : Sean Felton
Test Package : FLEET (Additional Tests: FT-IR(Diff))

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)

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