

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# BLUE BIRD 004184

Diesel Engine

Fluid PETRO CANADA DURON SHP 10W30 (18 QTS)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

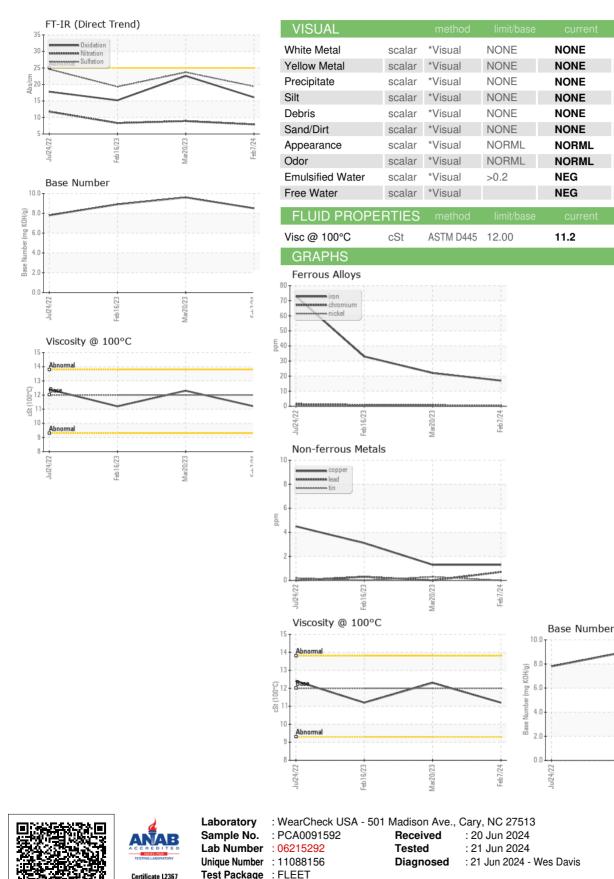
### Fluid Condition

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

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0091592	PCA0071425	PCA0045460
Sample Date		Client Info		07 Feb 2024	20 Mar 2023	16 Feb 2023
Machine Age	mls	Client Info		81059	55312	38648
Oil Age	mls	Client Info		16369	16664	8063
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
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	17	22	33
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	4	8
Lead	ppm	ASTM D5185m	>20	<1	0	<1
Copper	ppm	ASTM D5185m	>125	1	1	3
Tin	ppm	ASTM D5185m	>4	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	3	53	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	62	45	57
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	950	1012	586	912
Calcium	ppm	ASTM D5185m	1050	1179	1741	1149
Phosphorus	ppm	ASTM D5185m	995	1128	817	981
Zinc	ppm	ASTM D5185m	1180	1374	1002	1212
Sulfur	ppm	ASTM D5185m	2600	3720	2996	3363
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	9	8
Sodium	ppm	ASTM D5185m		5	8	2
Potassium	ppm	ASTM D5185m	>20	11	20	22
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.4	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.9	8.9	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	23.7	19.3
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	22.6	15.2
Base Number (BN)	mg KOH/g	ASTM D2896		8.5	9.6	8.9



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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.

ICSB370 - Alton 4525 North Alby Road Godfrey, IL US 62035 Contact: Chad Ingold c.ingold@illinois-central.com T: (618)466-5400 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) E:

Mar20/23

Feb7/24

eb16/23

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

11.2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

12.3

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