

### **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# Blue Bird 2330

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.

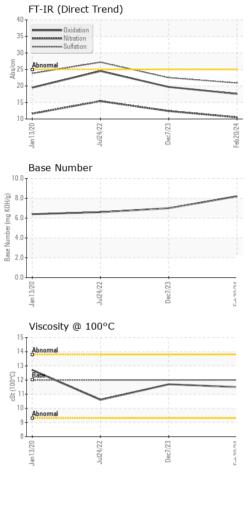
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		PCA0091588	PCA0071445	PCA0071385	
Sample Date		Client Info		20 Feb 2024	07 Dec 2023	24 Jul 2022	
Machine Age	mls	Client Info		140084	133349	122842	
Oil Age	mls	Client Info		6735	10507	11260	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATI	ON	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	34	43	70	
Chromium	ppm	ASTM D5185m	>10	2	2	2	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m	>2	<1	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	5	4	8	
Lead	ppm	ASTM D5185m	>20	2	3	6	
Copper	ppm	ASTM D5185m	>125	6	5	8	
Tin	ppm	ASTM D5185m	>4	0	0	<1	
Antimony	ppm	ASTM D5185m					
Vanadium	ppm	ASTM D5185m		<1	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	2	<1	<1	7	
Barium	ppm	ASTM D5185m	0	0	0	2	
Molybdenum	ppm	ASTM D5185m	50	64	61	55	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	950	1052	940	792	
Calcium	ppm	ASTM D5185m	1050	1227	1028	1102	
Phosphorus	ppm	ASTM D5185m	995	1126	945	880	
Zinc	ppm	ASTM D5185m	1180	1393	1202	1138	
Sulfur	ppm	ASTM D5185m	2600	3645	2822	2991	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	4	4	
Sodium	ppm	ASTM D5185m		3	1	2	
Potassium	ppm	ASTM D5185m	>20	2	0	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.7	0.8	1.2	
Nitration	Abs/cm		>20	10.5	12.4	15.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	22.5	27.2	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.6	19.7	24.5	
Base Number (BN)	mg KOH/g	ASTM D2896		8.2	7.0	6.6	
:57:26) Rev: 1					Submitted By: Chad Ingold		

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### TICC

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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.5	11.7	10.6
GRAPHS						
Ferrous Alloys						

