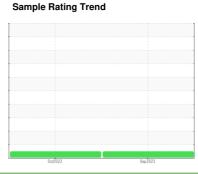


### **OIL ANALYSIS REPORT**

# (C-GNSB) [C-GNSB] EMBAREAR EMB-505 PCE-DG0185 (S/N 50500095)

**Left Jet Turbine** 

ESSO EXXON TURBO OIL 2380 (--- LTR)





### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

#### Wear

All component wear rates are normal. The directreading & analytical ferrographic results are normal indicating no abnormal wear in the system.

#### Contaminants

The water content is negligible. There is no indication of any contamination in the oil.

### **Oil Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

			0ct2022	Sep 2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC56838	WC0735641	
Sample Date		Client Info		13 Sep 2023	20 Oct 2022	
TSN	kms	Client Info		4505	3715	
TSO	kms	Client Info		0	3715	
Oil Age	kms	Client Info		791	3715	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>8	0	<1	
Chromium	ppm	ASTM D5185(m)	>2	0	0	
Nickel	ppm	ASTM D5185(m)	>2	0	<1	
Titanium	ppm	ASTM D5185(m)	>2	0	0	
Silver	ppm	ASTM D5185(m)	>2	<1	0	
Aluminum	ppm	ASTM D5185(m)	>2	<1	0	
Lead	ppm	ASTM D5185(m)	>3	0	<1	
Copper	ppm	ASTM D5185(m)	>3	<1	<1	
Tin	ppm	ASTM D5185(m)	>2	0	0	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	6.3	<1	<1	
Barium	ppm	ASTM D5185(m)		<1	0	
Molybdenum	ppm	ASTM D5185(m)	0.0	0	0	
Manganese	ppm	ASTM D5185(m)		0	0	
Magnesium	ppm	ASTM D5185(m)	0.0	0	0	
Calcium	ppm	ASTM D5185(m)	0.1	0	0	
Phosphorus	ppm	ASTM D5185(m)	2931	2688	2728	
Zinc	ppm	ASTM D5185(m)	0.1	<1	<1	
Sulfur	ppm	ASTM D5185(m)	0.0	3	4	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>8	<1	1	
Sodium	ppm	ASTM D5185(m)		<1	1	
Potassium	ppm	ASTM D5185(m)	>20	0	<1	
Water	%	ASTM D6304*	>0.1	0.068	0.038	
ppm Water	ppm	ASTM D6304*	>1000	682.1	380.5	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

0.53

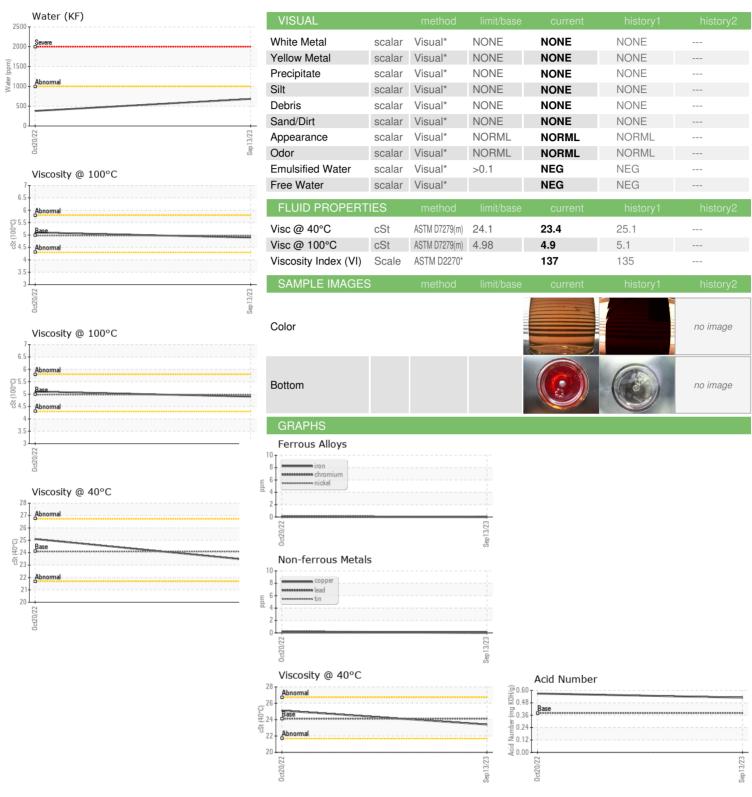
Acid Number (AN)

mg KOH/g ASTM D974\* .38

0.57



### **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number** 

Test Package

: WC56838 : 02586735

: AVI 3

: 5655801

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : 04 Oct 2023 Received Diagnosed

: 10 Oct 2023 : Kevin Marson Diagnostician

FLYGTA Inc. 2833 16TH AVE.,, HANGAR 3 & 4, BUTTONVILLE AIRPORT MARKHAM, ON

CA L3R 0P8 Contact: Bill Bowmer wbowmer1@gmail.com T: (647)454-0457

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.



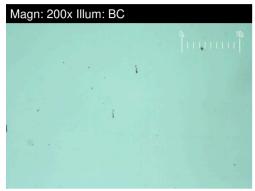
### **FERROGRAPHY REPORT**

(C-GNSB)

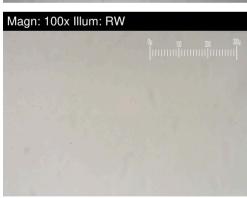
## [C-GNSB] EMBAREAR EMB-505 PCE-DG0185 (S/N 50500095)

Left Jet Turbine

ESSO EXXON TURBO OIL 2380 (--- LTR)



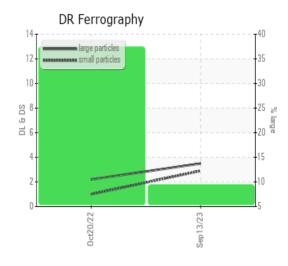




DR-FERROGRAP	ΉY	method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		3.5	2.2	
Small Particles		DR-Ferr*		2.9	1.0	
Total Particles		DR-Ferr*	>	6.4	3.2	
Large Particles Percentage	%	DR-Ferr*		9.4	37.5	
Severity Index		DR-Ferr*		2	3	
FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*		1	1	
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*		1	1	
Ferrous Break-in	Scale 0-10	ASTM D7684*				
Ferrous Spheres	Scale 0-10	ASTM D7684*				
Ferrous Black Oxides	Scale 0-10	ASTM D7684*				
Ferrous Red Oxides	Scale 0-10	ASTM D7684*				
Ferrous Corrosive	Scale 0-10	ASTM D7684*				
Ferrous Other	Scale 0-10	ASTM D7684*				
Nonferrous Rubbing	Scale 0-10	ASTM D7684*				
Nonferrous Sliding	Scale 0-10	ASTM D7684*				
Nonferrous Cutting	Scale 0-10	ASTM D7684*				
Nonferrous Rolling	Scale 0-10	ASTM D7684*				
Nonferrous Other	Scale 0-10	ASTM D7684*				
Carbonaceous Material	Scale 0-10	ASTM D7684*				
Lubricant Degradation	Scale 0-10	ASTM D7684*				
Sand/Dirt	Scale 0-10	ASTM D7684*		1	1	
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		1	1	

#### WEAR

All component wear rates are normal. The direct-reading & analytical ferrographic results are normal indicating no abnormal wear in the system.



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