

OIL ANALYSIS REPORT

(C-GZGZ) [C-GZGZ] PILATUS 9C12 PCE-110024

Component Jet Turbine

BP TURBO OIL 2380 (14 LTR)

Sample Rating Trend



DIAGNOSIS	SAMPLE INFORM	ATION	method		history2	
Recommendation	Sample Number		Client Info	WC0759270	 	
Resample at the next service interval to monitor.	Sample Date		Client Info	18 Apr 2023	 	
Vear	TSN	hrs	Client Info	20775	 	
All component wear rates are normal. The direct-	TSO	hrs	Client Info	863	 	
eading & analytical ferrographic results are normal	Oil Age	hrs	Client Info	863	 	
ndicating no abnormal wear in the system.	Oil Changed		Client Info	Not Changd	 	
Contaminants	Sample Status			NORMAL	 	

Acid Number (AN) mg KOH/g ASTM D974* 0.43

				-		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)	>8	0		
Chromium	ppm	ASTM D5185(m)	>2	0		
Nickel	ppm	ASTM D5185(m)	>2	<1		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>2	0		
Lead	ppm	ASTM D5185(m)	>3	0		
Copper	ppm	ASTM D5185(m)	>3	0		
Tin	ppm	ASTM D5185(m)	>2	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	0		
				-		

ADDITIVES		method			history2
Boron	ppm	ASTM D5185(m)	0	0	
Barium	ppm	ASTM D5185(m)	0	0	
Molybdenum	ppm	ASTM D5185(m)	0	0	
Manganese	ppm	ASTM D5185(m)		0	
Magnesium	ppm	ASTM D5185(m)	0	<1	
Calcium	ppm	ASTM D5185(m)	0	0	
Phosphorus	ppm	ASTM D5185(m)	2500	2646	
Zinc	ppm	ASTM D5185(m)	0	<1	
Sulfur	ppm	ASTM D5185(m)	0	2	
Lithium	ppm	ASTM D5185(m)		<1	

Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>8	<1		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	0		
Water	%	ASTM D6304*	>0.1	0.046		
ppm Water	ppm	ASTM D6304*	>1000	461.3		
FLUID DEGR/	ADATION	method	limit/base	current	history1	history2

0.26

Re

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Contaminants

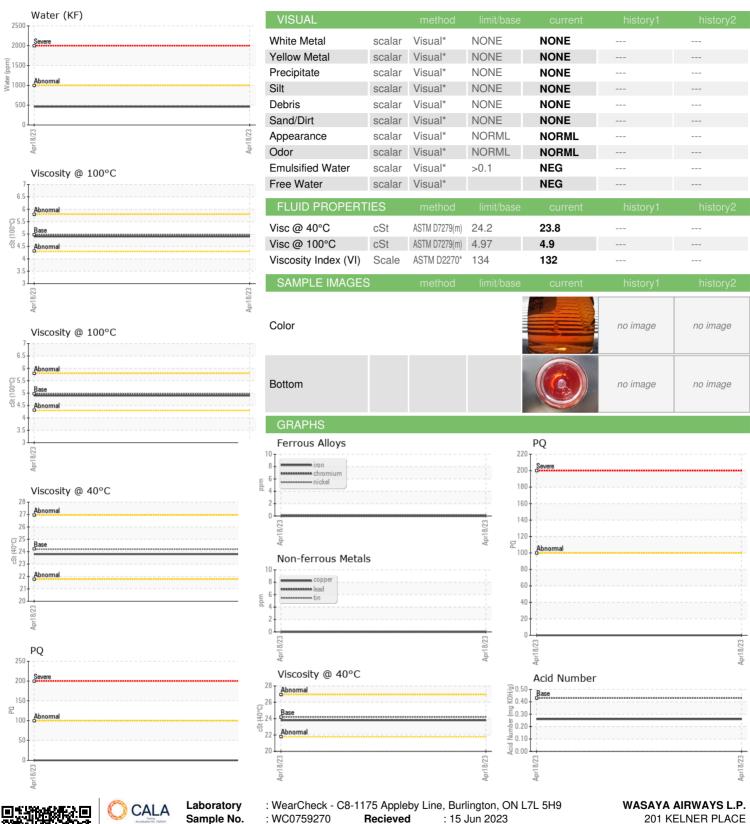
The water content is negligible. There is no indication of any contamination in the oil.

Oil Condition

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



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

Sample No. Lab Number **Unique Number**

: WC0759270

: 02564322

Diagnosed

: 15 Jun 2023 : 19 Jun 2023

Diagnostician : Kevin Marson

: 5593363 Test Package : AVI 3 (Additional Tests: PQ)

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.

201 KELNER PLACE THUNDER BAY, ON **CA P7E 6V3**

Contact: Leila Richardson Irichardson@wasaya.com T: (807)626-8374

F: (807)577-0200

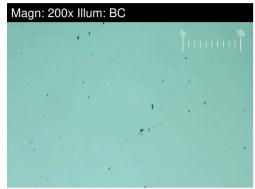


FERROGRAPHY REPORT

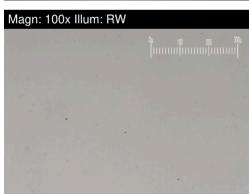
(C-GZGZ) Machine Id [C-GZGZ] PILATUS 9C12 PCE-110024

Jet Turbine

BP TURBO OIL 2380 (14 LTR)



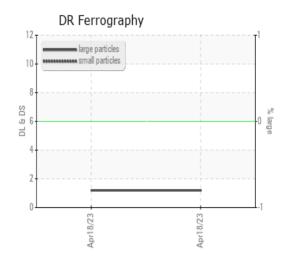




DR-FERROGRAP	ΉY	method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		1.2		
Small Particles		DR-Ferr*		1.2		
Total Particles		DR-Ferr*	>	2.4		
Large Particles Percentage	%	DR-Ferr*		0		
Severity Index		DR-Ferr*		0		
FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*		1		
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*		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		
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		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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