

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

[C-GXNR] BOEING 737-200 C-GXNR Component

Auxilary Power Unit Jet Turbine BP TURBO OIL 2380 (--- GAL)

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 ferrography 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.

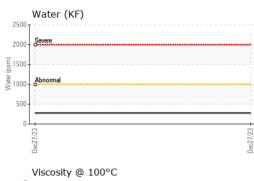
Oil Condition

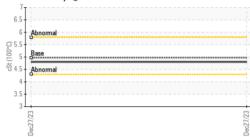
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

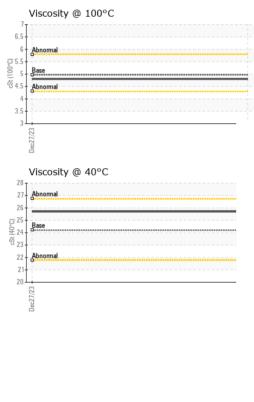
				Dec2023		
SAMPLE INFORM		method	limit/base		biotonut	biotony2
	MATION		iiiiii/base		history1	history2
Sample Number		Client Info Client Info		WC0815268 27 Dec 2023		
Sample Date TSN	hrs	Client Info		27 Dec 2023 0		
TSO	hrs	Client Info		0		
Oil Age	hrs	Client Info		100		
Oil Changed	1115	Client Info		N/A		
Sample Status				NORMAL		
				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>8	0		
Chromium	ppm	ASTM D5185(m)	>2	0		
Nickel	ppm	ASTM D5185(m)	>2	0		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>2	<1		
Lead	ppm	ASTM D5185(m)	>3	0		
Copper	ppm	ASTM D5185(m)	>3	<1		
Гin	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		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	0	0		
Vanganese	ppm	ASTM D5185(m)		0		
Vagnesium	ppm	ASTM D5185(m)	0	<1		
Calcium	ppm	ASTM D5185(m)	0	0		
Phosphorus	ppm	ASTM D5185(m)	2500	2666		
Zinc	ppm	ASTM D5185(m)	0	<1		
Sulfur	ppm	ASTM D5185(m)	0	0		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>8	2		
Sodium	ppm	ASTM D5185(m)		0		
Potassium	ppm	ASTM D5185(m)	>20	<1		
Water	%	ASTM D6304*	>0.1	0.027		
opm Water	ppm	ASTM D6304*	>1000	277		
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.43	0.97		
(-)	0 - 0					



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		
Dec27/23	Appearance	scalar	Visual*	NORML	NORML		
De	Odor	scalar	Visual*	NORML	NORML		
	Emulsified Water	scalar	Visual*	>0.1	NEG		
	Free Water	scalar	Visual*		NEG		
	FLUID PROPERT	IES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D7279(m)	24.2	25.7		
	Visc @ 100°C	cSt	ASTM D7279(m)	4.97	4.8		
	Viscosity Index (VI)	Scale	ASTM D2270*	134	107		
	SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Dec27/23	Color					no image	no image
	Bottom					no image	no image
	Non-ferrous Metal	S		3 - Dec2/723 - Dec2/72	Acid Number		
	20 + CZ//Z3 + 05			Dec27/23	Dec21/23 + 0.		Dec27/23 +
aboratory ample No. ab Number nique Number est Package ample report. c	: 02609296	Recieved Diagnos Diagnosi	d : 17 . ed : 23 . tician : Kev	ington, ON I Jan 2024 Jan 2024 in Marson	L7L 5H9 glencof 2450 de	RRY ROAD EAS MISS	ION -RAGLAN MINE ST, HANGAR # 1 SISSAUGA, ON CA L5S 1B2 Ierman Ricardo

To discuss this sample report,

CALA

ISO 17025:2017 Accredited Laboratory

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.

T: (305)677-2991

F: (905)677-6616

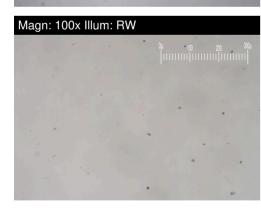


FERROGRAPHY REPORT

[C-GXNR] BOEING 737-200 C-GXNR

Auxilary Power Unit Jet Turbine Fluid BP TURBO OIL 2380 (--- GAL)

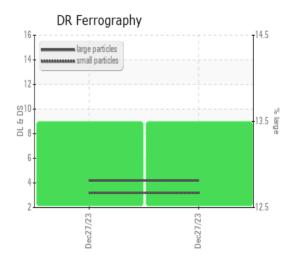
Magn: 200x Illum: BC



DR-FERROGRAP	ΡΗΥ	method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		4.2		
Small Particles		DR-Ferr*		3.2		
Total Particles		DR-Ferr*	>	7.4		
Large Particles Percentage	%	DR-Ferr*		13.5		
Severity Index		DR-Ferr*		4		
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*				
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*				
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		1		

WEAF

All component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system.



This page left intentionally blank