

# **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL

# BOEING 737-200 C-GXNR

Right Jet Turbine Fluid NOT GIVEN (--- GAL)

### 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. Please specify the brand, type, and viscosity of the oil on your 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. High silicon level indicates possible contamination with siliconebased oil or silicone-based fitting

compound/grease. Advise investigate any possible cross-contamination with silicone-based oil, or any points that are sealed/greased with silicone-based compound/grease.

### **Oil Condition**

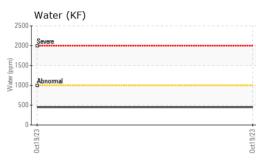
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

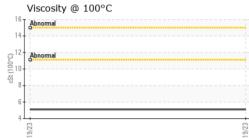
		0ct2023				
SAMPLE INFORM	ΜΑΤΙΟΝ	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0498358		
Sample Date		Client Info		19 Oct 2023		
TSN	hrs	Client Info		0		
TSO	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>8	2		
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	<1		
Aluminum	ppm	ASTM D5185(m)	>2	<1		
Lead	ppm	ASTM D5185(m)	>3	0		
Copper	ppm	ASTM D5185(m)	>3	<1		
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)		<1		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		<1		
Calcium	ppm	ASTM D5185(m)		<1		
Phosphorus	ppm	ASTM D5185(m)		1999		
Zinc	ppm	ASTM D5185(m)		<1		
Sulfur	ppm	ASTM D5185(m)		109		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	\$	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>8	21		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	0		
Water	%	ASTM D6304*	>0.1	0.044		
ppm Water	ppm	ASTM D6304*	>1000	448.6		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.13		

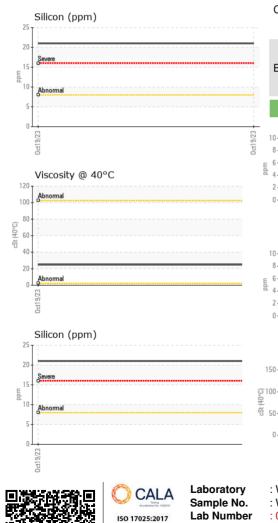




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	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
	Precipitate	scalar	Visual*	NONE	NONE		
-	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
0ct19/23	Appearance	scalar	Visual*	NORML	NORML		
Oct	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)		24.9		
	Visc @ 100°C	cSt	ASTM D7279(m)		5.1		
	Viscosity Index (VI)	Scale	ASTM D2270*		137		
	SAMPLE IMAGES	6	method	limit/base	current	history1	history2
0ct19/23	Color					no image	no image
	Bottom					no image	no image
	GRAPHS						
Octi9/23 -	Ferrous Alloys			0et19/23			
	Viscosity @ 40°C			0et19/23	Acid Number		
	WearCheck C9 11	75 Applo	by Line Burg	Acid Number (ng KOH(g)	0ct19/2		
Laboratory Sample No. Lab Number Unique Number Test Package	: 02592659	Received Diagnos Diagnost	d : 30 ( ed : 02 )	Dct 2023 Nov 2023 in Marson		RRY ROAD EAS MISS	ST, HANGAR # 1 SISSAUGA, ON CA L5S 1B2 Ierman Ricardo

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.

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Accredited Laboratory



# FERROGRAPHY REPORT

# BOEING 737-200 C-GXNR

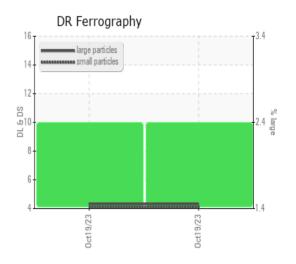
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# Magn: 200x Illum: BC

DR-FERROGRAP	PHY	method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		4.3		
Small Particles		DR-Ferr*		4.1		
Total Particles		DR-Ferr*	>	8.4		
Large Particles Percentage	%	DR-Ferr*		2.4		
Severity Index		DR-Ferr*		1		
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*		1		
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.



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