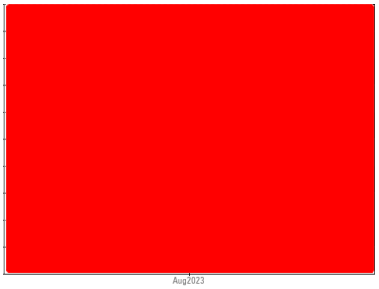
PROBLEM SUMMARY

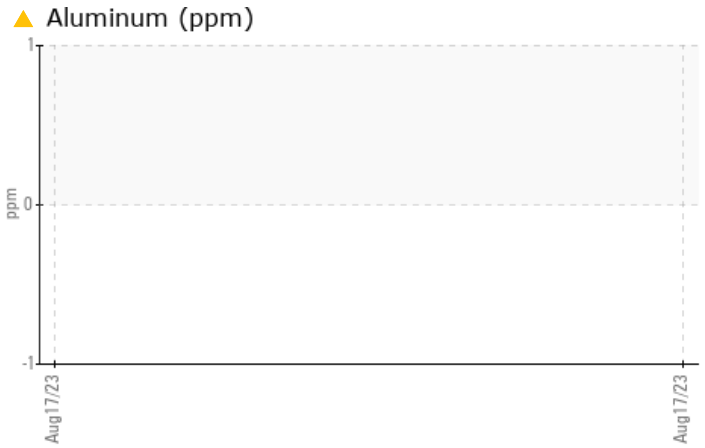
Sample Rating Trend



WEAR PARTICLES

Machine Id
[C-FJGG] BOMBARDIER LEARJET 60 C-FJGG PRESSURE FILTER
Component
A Filter
Fluid
NOT GIVEN (--- QTS)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

An inspection for the source(s) of wear may be warranted at this time. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	---	---
Ferrous Rubbing	Scale 0-10	ASTM D7684*	8		
Ferrous Rolling	Scale 0-10	ASTM D7684*	5		
Nonferrous Sliding	Scale 0-10	ASTM D7684*	10		
Nonferrous Cutting	Scale 0-10	ASTM D7684*	10		
Nonferrous Rolling	Scale 0-10	ASTM D7684*	10		

Customer Id: SKYGRA
Sample No.: PP
Lab Number: 02576981
Test Package: FLTRO

To manage this report scan the QR code

To discuss the diagnosis or test data:
Kevin Marson +1 (289)291-4644 x4644
Kevin.Marson@wearcheck.com

To change component or sample information:
Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

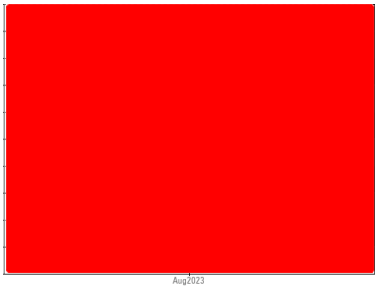
RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	An inspection for the source(s) of wear may be warranted at this time.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR PARTICLES

Machine Id
[C-FJGG] BOMBARDIER LEARJET 60 C-FJGG PRESSURE FILTER
Component
A Filter
Fluid
NOT GIVEN (--- QTS)

DIAGNOSIS

Recommendation

An inspection for the source(s) of wear may be warranted at this time. We recommend an early resample to monitor this condition.

Wear Particles

Wear particle analysis indicates that the ferrous rolling, nonferrous cutting, nonferrous rolling and nonferrous sliding and ferrous rubbing particles are severe. Aluminum, copper, tin ppm levels are marginal. Cutting wear particles are caused by either hard protuberances (mis-aligned components, etc.), or abrasives entering the system and embedding themselves in softer materials (sand, etc.), and gouging out mating surfaces. The most likely alloy matches are Ball Bearing Steel (SAE 52100), Manganese brass (Manganese brass),

Contaminants

The filter contained only normal levels of contaminants, and debris. All filter contaminant levels are normal.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		PP	---	---
Sample Date		Client Info		17 Aug 2023	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---

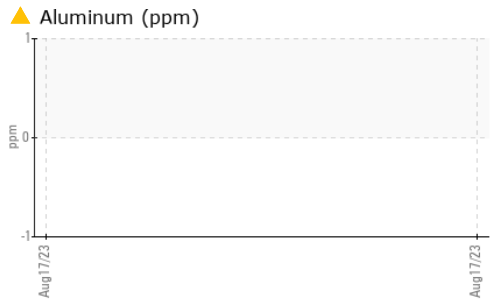
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)		52	---	---
Chromium	ppm	ASTM D5185(m)		<1	---	---
Nickel	ppm	ASTM D5185(m)		0	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---

FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*		8		
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*		5		
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*			10	
Nonferrous Cutting	Scale 0-10	ASTM D7684*			10	
Nonferrous Rolling	Scale 0-10	ASTM D7684*			10	
Nonferrous Other	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*				
Patch Weight	mg	ASTM D7684*		2234	---	---

ADDITIVES		method	limit/base	current	history1	history2
Manganese	ppm	ASTM D5185(m)		2	---	---
Sulfur	ppm	ASTM D5185(m)		0	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		<1	---	---

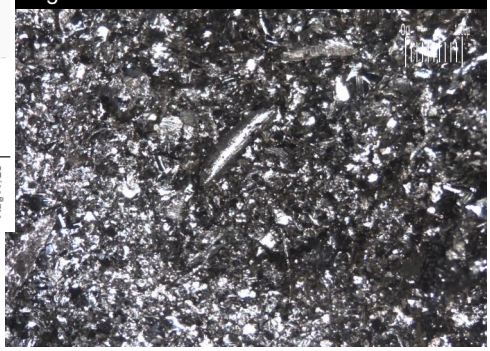
OIL ANALYSIS REPORT



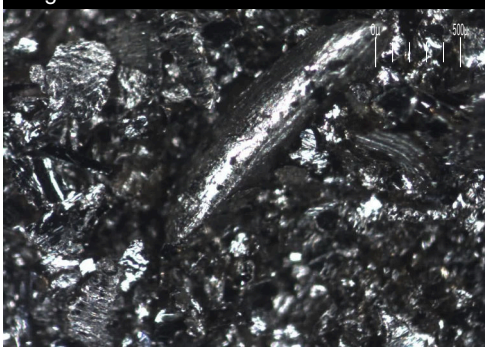
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS

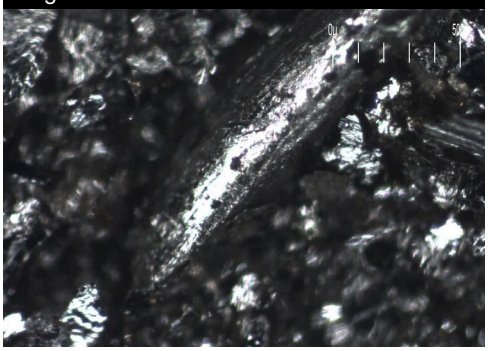
Magn: 10x Illum: RW



Magn: 30x Illum: RW



Magn: 45x Illum: RW



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PP
Lab Number : 02576981
Unique Number : 5630041
Test Package : FLTRO (Additional Tests: ICP, ICP-DIGEST)
Received : 18 Aug 2023
Diagnosed : 18 Aug 2023
Diagnostician : Kevin Marson

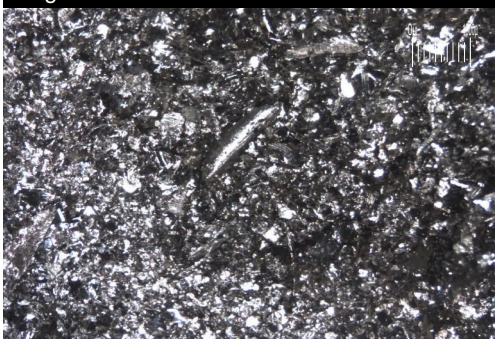
To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.

Skyservice
1004 Airport Rd
Gravenhurst, ON
CA P1P 1R1
Contact: Terri Beckitt
Terri_Beckitt@skyservice.com
T: (905)362-5593
F:

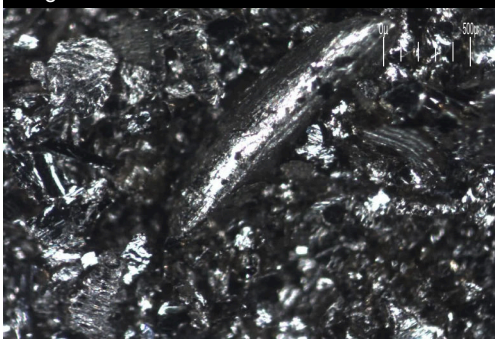
FILTER REPORT

Machine Id
[C-FJGG] BOMBARDIER LEARJET 60 C-FJGG PRESSURE FILTER
Component
A Filter
Fluid
NOT GIVEN (--- QTS)

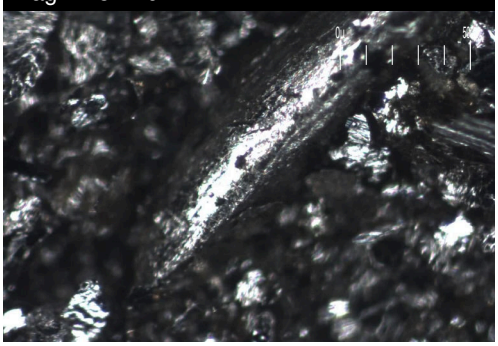
Magn: 10x Illum: RW



Magn: 30x Illum: RW



Magn: 45x Illum: RW



FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*				
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*		5		
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*			10	
Nonferrous Cutting	Scale 0-10	ASTM D7684*			10	
Nonferrous Rolling	Scale 0-10	ASTM D7684*			10	
Nonferrous Other	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*				
Patch Weight	mg	ASTM D7684*		2234	---	---

WEAR

Wear particle analysis indicates that the ferrous rolling, nonferrous cutting, nonferrous rolling and nonferrous sliding and ferrous rubbing particles are severe. Aluminum, copper, tin ppm levels are marginal. Cutting wear particles are caused by either hard protuberances (mis-aligned components, etc.), or abrasives entering the system and embedding themselves in softer materials (sand, etc.), and gouging out mating surfaces. The most likely alloy matches are Ball Bearing Steel (SAE 52100), Manganese brass (Manganese brass),

This page left intentionally blank