



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

[1001155792]

Machine Id

BOEING 737-800 C-GLRN BOEING 737-800 A-SYSTEM (S/N 41353)

Component

A Hydraulic System

Fluid

SKYDROL LD-4 (--- 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0760752</b>	WC0881026	WC0439705
Sample Date		Client Info		<b>13 Jun 2024</b>	28 Apr 2024	30 Jul 2020
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	<b>2</b>	5	2
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Lead	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>20	<b>5</b>	8	3
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

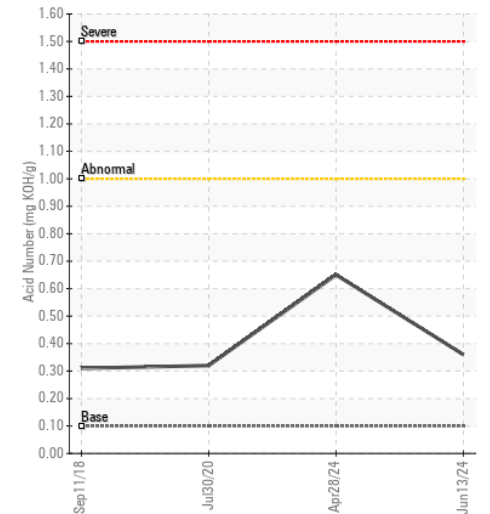
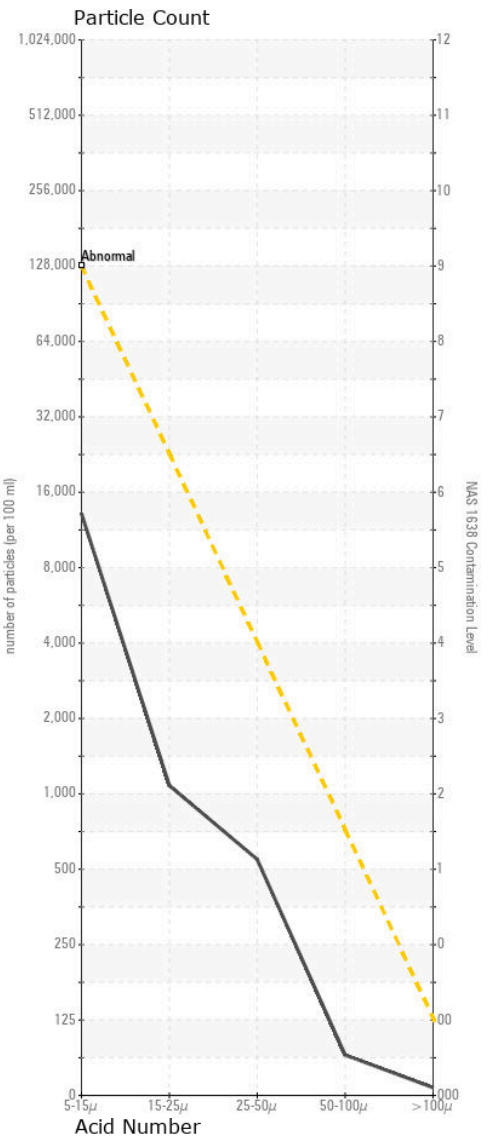
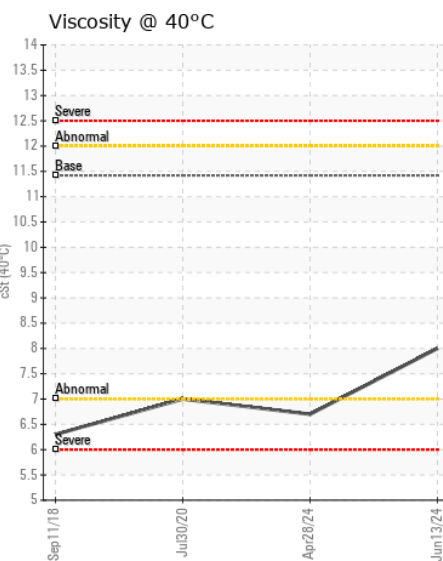
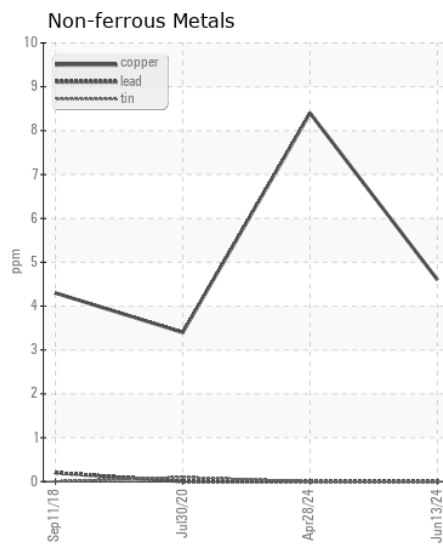
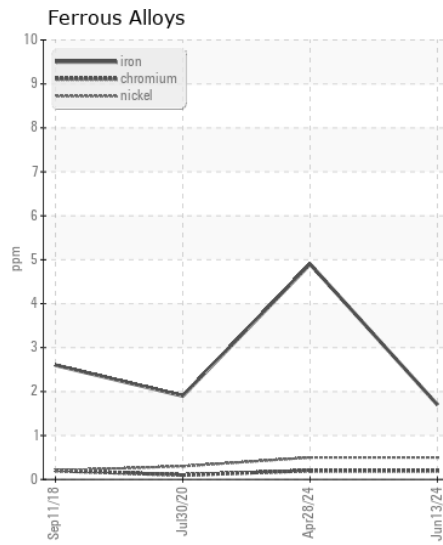
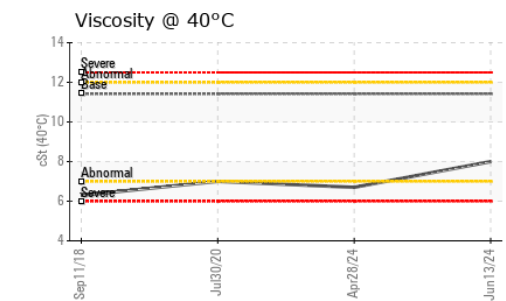
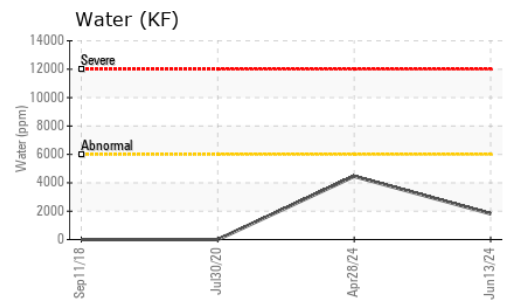
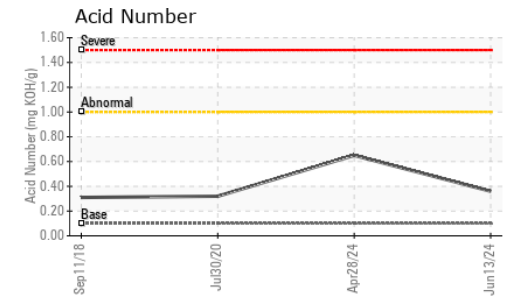
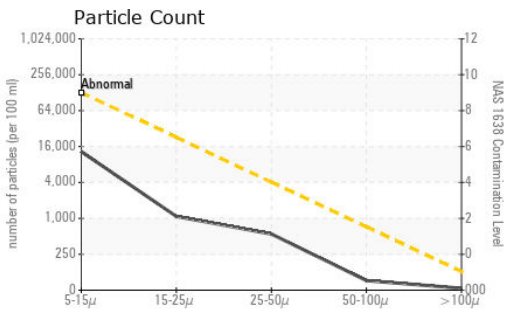
The water content is negligible. The system cleanliness is acceptable for your target SAE AS4059 (replaces NAS 1638) cleanliness code. There is no indication of any contamination in the oil. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>15	<b>1</b>	1	3
Potassium	ppm	ASTM D5185(m)	>20	<b>24</b>	22	25
Water	%	ASTM D6304*	>0.6	<b>0.181</b>	0.445	---
ppm Water	ppm	ASTM D6304*	>6000	<b>1819</b>	4455	---
Particles >4µm		ASTM D7647		<b>---</b>	---	---
Particles >6µm		ASTM D7647	>128000	<b>---</b>	---	---
Particles >14µm		ASTM D7647	>22800	<b>---</b>	---	---
Particles >21µm		ASTM D7647	>4050	<b>---</b>	---	---
Particles >38µm		ASTM D7647	>720	<b>---</b>	---	---
Particles >71µm		ASTM D7647	>128	<b>---</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>9	<b>---</b>	---	---
Particles 5-15µm	count	NAS 1638	>128000	<b>13167</b>	125781	14240
Particles 15-25µm	count	NAS 1638	>22800	<b>1080</b>	▲ 23800	656
Particles 25-50µm	count	NAS 1638	>4050	<b>547</b>	▲ 13327	907
Particles 50-100µm	count	NAS 1638	>720	<b>67</b>	▲ 1813	100
Particles >100µm	count	NAS 1638	>128	<b>13</b>	▲ 240	28
NAS 1638	Class	NAS 1638	>9	<b>7</b>	11	7
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.6	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>5</b>	3	1
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	3	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Calcium	ppm	ASTM D5185(m)	0	<b>17</b>	8	9
Phosphorus	ppm	ASTM D5185(m)	20000	<b>43624</b>	42106	35430
Zinc	ppm	ASTM D5185(m)	0	<b>3</b>	5	1
Sulfur	ppm	ASTM D5185(m)	1900	<b>1036</b>	1478	1401
Acid Number (AN)	mg KOH/g	ASTM D974*	0.10	<b>0.36</b>	0.65	0.32
Visc @ 40°C	cSt	ASTM D7279(m)	11.42	<b>8</b>	6.7	7.0



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0760752 **Received** : 14 Jun 2024  
**Lab Number** : 02642191 **Tested** : 19 Jun 2024  
**Unique Number** : 5799730 **Diagnosed** : 19 Jun 2024 - Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount, TAN Man )

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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