



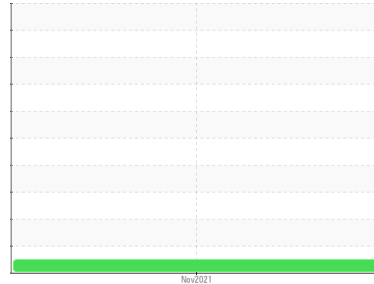
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**(C-FYXA)**  
 Machine Id  
**[C-FYXA] BOEING 737-800 37245 SYS A**  
 Component  
**Hydraulic System**  
 Fluid  
**{not provided} (--- 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.

### Contamination

There is no indication of any contamination in the oil. The system and fluid cleanliness is acceptable.

### Fluid Condition

The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

|               | method      | limit/base  | current            | history1 | history2 |
|---------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info |             | <b>WC0308850</b>   | ---      | ---      |
| Sample Date   | Client Info |             | <b>28 Nov 2021</b> | ---      | ---      |
| Machine Age   | hrs         | Client Info | <b>0</b>           | ---      | ---      |
| Oil Age       | hrs         | Client Info | <b>0</b>           | ---      | ---      |
| Oil Changed   | Client Info |             | <b>N/A</b>         | ---      | ---      |
| Sample Status |             |             | <b>NORMAL</b>      | ---      | ---      |

## WEAR METALS

|           | method | limit/base    | current | history1     | history2 |
|-----------|--------|---------------|---------|--------------|----------|
| Iron      | ppm    | ASTM D5185(m) | >20     | <b>1</b>     | ---      |
| Chromium  | ppm    | ASTM D5185(m) | >10     | <b>&lt;1</b> | ---      |
| Nickel    | ppm    | ASTM D5185(m) | >10     | <b>&lt;1</b> | ---      |
| Titanium  | ppm    | ASTM D5185(m) |         | <b>0</b>     | ---      |
| Silver    | ppm    | ASTM D5185(m) |         | <b>&lt;1</b> | ---      |
| Aluminum  | ppm    | ASTM D5185(m) | >10     | <b>0</b>     | ---      |
| Lead      | ppm    | ASTM D5185(m) | >20     | <b>0</b>     | ---      |
| Copper    | ppm    | ASTM D5185(m) | >20     | <b>1</b>     | ---      |
| Tin       | ppm    | ASTM D5185(m) | >10     | <b>&lt;1</b> | ---      |
| Antimony  | ppm    | ASTM D5185(m) |         | <b>0</b>     | ---      |
| Vanadium  | ppm    | ASTM D5185(m) |         | <b>0</b>     | ---      |
| Beryllium | ppm    | ASTM D5185(m) |         | <b>0</b>     | ---      |
| Cadmium   | ppm    | ASTM D5185(m) |         | <b>6</b>     | ---      |

## ADDITIVES

|            | method | limit/base    | current | history1     | history2 |
|------------|--------|---------------|---------|--------------|----------|
| Boron      | ppm    | ASTM D5185(m) |         | <b>2</b>     | ---      |
| Barium     | ppm    | ASTM D5185(m) |         | <b>0</b>     | ---      |
| Molybdenum | ppm    | ASTM D5185(m) |         | <b>0</b>     | ---      |
| Manganese  | ppm    | ASTM D5185(m) |         | <b>0</b>     | ---      |
| Magnesium  | ppm    | ASTM D5185(m) |         | <b>0</b>     | ---      |
| Calcium    | ppm    | ASTM D5185(m) |         | <b>20</b>    | ---      |
| Phosphorus | ppm    | ASTM D5185(m) |         | <b>37232</b> | ---      |
| Zinc       | ppm    | ASTM D5185(m) |         | <b>&lt;1</b> | ---      |
| Sulfur     | ppm    | ASTM D5185(m) |         | <b>966</b>   | ---      |
| Lithium    | ppm    | ASTM D5185(m) |         | <b>&lt;1</b> | ---      |

## CONTAMINANTS

|           | method | limit/base    | current | history1     | history2 |
|-----------|--------|---------------|---------|--------------|----------|
| Silicon   | ppm    | ASTM D5185(m) | >15     | <b>&lt;1</b> | ---      |
| Sodium    | ppm    | ASTM D5185(m) |         | <b>3</b>     | ---      |
| Potassium | ppm    | ASTM D5185(m) | >20     | <b>26</b>    | ---      |
| Water     | %      | ASTM D6304*   | >0.05   | <b>NEG</b>   | ---      |

## FLUID CLEANLINESS

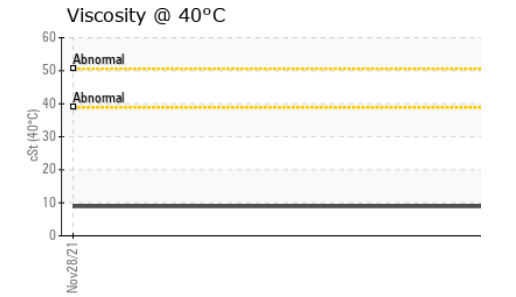
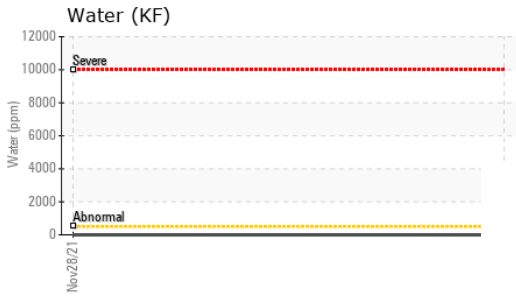
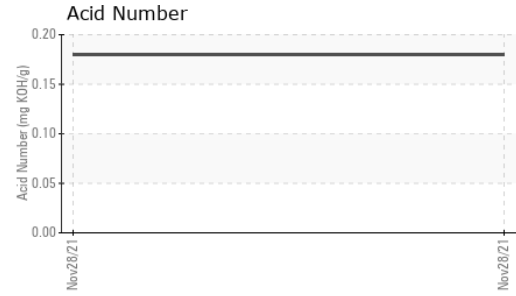
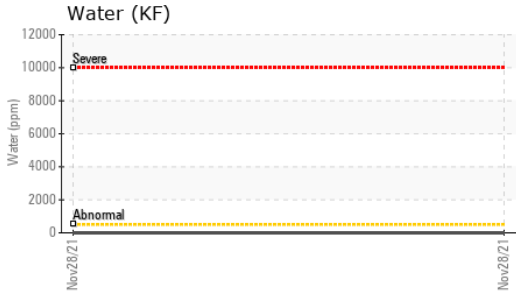
|                    | method | limit/base | current | history1    | history2 |
|--------------------|--------|------------|---------|-------------|----------|
| Particles 5-15µm   | count  | NAS 1638   | >127999 | <b>8232</b> | ---      |
| Particles 15-25µm  | count  | NAS 1638   | >22799  | <b>477</b>  | ---      |
| Particles 25-50µm  | count  | NAS 1638   | >4049   | <b>156</b>  | ---      |
| Particles 50-100µm | count  | NAS 1638   | >719    | <b>58</b>   | ---      |
| Particles >100µm   | count  | NAS 1638   | >127    | <b>16</b>   | ---      |
| NAS 1638           | Class  | NAS 1638   | >9      | <b>7</b>    | ---      |

## FLUID DEGRADATION

|                  | method   | limit/base | current | history1    | history2 |
|------------------|----------|------------|---------|-------------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D974* |         | <b>0.18</b> | ---      |



# OIL ANALYSIS REPORT



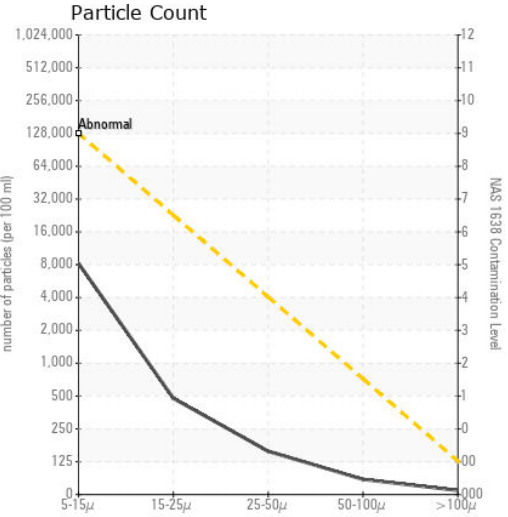
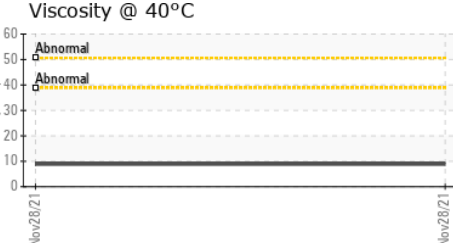
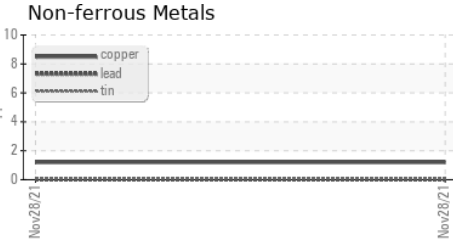
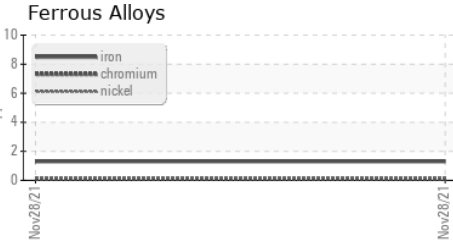
| VISUAL           | method | limit/base | current | history1 | history2 |     |
|------------------|--------|------------|---------|----------|----------|-----|
| White Metal      | scalar | Visual*    | NONE    | NONE     | ---      | --- |
| Yellow Metal     | scalar | Visual*    | NONE    | NONE     | ---      | --- |
| Precipitate      | scalar | Visual*    | NONE    | NONE     | ---      | --- |
| Silt             | scalar | Visual*    | NONE    | NONE     | ---      | --- |
| Debris           | scalar | Visual*    | NONE    | NONE     | ---      | --- |
| Sand/Dirt        | scalar | Visual*    | NONE    | NONE     | ---      | --- |
| Appearance       | scalar | Visual*    | NORML   | NORML    | ---      | --- |
| Odor             | scalar | Visual*    | NORML   | NORML    | ---      | --- |
| Emulsified Water | scalar | Visual*    | >0.05   | NEG      | ---      | --- |
| Free Water       | scalar | Visual*    |         | NEG      | ---      | --- |

| FLUID PROPERTIES | method | limit/base    | current | history1 | history2 |
|------------------|--------|---------------|---------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D7279(m) | 8.9     | ---      | ---      |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|

|        |  |          |          |
|--------|--|----------|----------|
| Color  |  | no image | no image |
| Bottom |  | no image | no image |

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0308850 **Received** : 30 Nov 2021  
**Lab Number** : 02459229 **Diagnosed** : 30 Nov 2021  
**Unique Number** : 5318790 **Diagnostician** : 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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