

### **OIL ANALYSIS REPORT**

Sample Rating Trend

WATER

## CLOVER COMPACTOR 120 #2

Component Gearbox Fluid CPP PG 220 (--- GAL)

# DIAGNOSIS

#### Recommendation

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

Free water present.

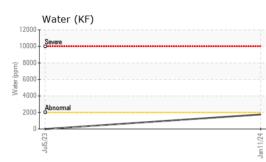
#### Fluid Condition

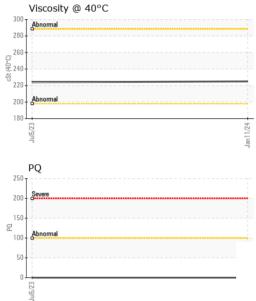
The oil is no longer serviceable due to the presence of contaminants.

| SAMPLE INFORM | <b>IATION</b> | method        | limit/base | current     | history1    | history2 |
|---------------|---------------|---------------|------------|-------------|-------------|----------|
| Sample Number |               | Client Info   |            | WC0738313   | WC0738340   |          |
| Sample Date   |               | Client Info   |            | 11 Jan 2024 | 05 Jul 2023 |          |
| Machine Age   | hrs           | Client Info   |            | 0           | 0           |          |
| Oil Age       | hrs           | Client Info   |            | 0           | 0           |          |
| Oil Changed   |               | Client Info   |            | Not Changd  | Not Changd  |          |
| Sample Status |               |               |            | ABNORMAL    | NORMAL      |          |
| WEAR METALS   |               | method        | limit/base | current     | history1    | history2 |
| PQ            |               | ASTM D8184*   |            | 0           | 0           |          |
| Iron          | ppm           | ASTM D5185(m) | >200       | 3           | 2           |          |
| Chromium      | ppm           | ASTM D5185(m) | >10        | 0           | 0           |          |
| Nickel        | ppm           | ASTM D5185(m) | >10        | <1          | 0           |          |
| Titanium      | ppm           | ASTM D5185(m) |            | 0           | 0           |          |
| Silver        | ppm           | ASTM D5185(m) |            | 0           | 0           |          |
| Aluminum      | ppm           | ASTM D5185(m) | >25        | <1          | 0           |          |
| Lead          | ppm           | ASTM D5185(m) | >50        | 0           | 0           |          |
| Copper        | ppm           | ASTM D5185(m) | >200       | <1          | 2           |          |
| Tin           | ppm           | ASTM D5185(m) | >10        | 0           | 0           |          |
| Antimony      | ppm           | ASTM D5185(m) | >5         | 0           | 0           |          |
| Vanadium      | ppm           | ASTM D5185(m) |            | 0           | 0           |          |
| Beryllium     | ppm           | ASTM D5185(m) |            | 0           | 0           |          |
| Cadmium       | ppm           | ASTM D5185(m) |            | 0           | 0           |          |
| ADDITIVES     |               | method        | limit/base | current     | history1    | history2 |
| Boron         | ppm           | ASTM D5185(m) |            | 15          | <1          |          |
| Barium        | ppm           | ASTM D5185(m) |            | 0           | 0           |          |
| Molybdenum    | ppm           | ASTM D5185(m) |            | 0           | <1          |          |
| Manganese     | ppm           | ASTM D5185(m) |            | 0           | 0           |          |
| Magnesium     | ppm           | ASTM D5185(m) |            | <1          | 3           |          |
| Calcium       | ppm           | ASTM D5185(m) |            | 7           | 25          |          |
| Phosphorus    | ppm           | ASTM D5185(m) |            | 329         | 142         |          |
| Zinc          | ppm           | ASTM D5185(m) |            | 6           | 15          |          |
| Sulfur        | ppm           | ASTM D5185(m) |            | 9440        | 4565        |          |
| Lithium       | ppm           | ASTM D5185(m) |            | <1          | <1          |          |
| CONTAMINANTS  | ;             | method        | limit/base | current     | history1    | history2 |
| Silicon       | ppm           | ASTM D5185(m) | >50        | 2           | 2           |          |
| Sodium        | ppm           | ASTM D5185(m) |            | <1          | <1          |          |
| Potassium     | ppm           | ASTM D5185(m) | >20        | 1           | 0           |          |
| Water         | %             | ASTM D6304*   | >0.2       | 0.175       |             |          |
| ppm Water     | ppm           | ASTM D6304*   | >2000      | 1755        |             |          |



### **OIL ANALYSIS REPORT**





|                    |   | method   | limit/base  | current  | history1  | history2  |
|--------------------|---|--|---|--|---|---|
| White Metal        | scalar  | Visual*  | NONE  | NONE   | NONE  |   |
| Yellow Metal       | scalar  | Visual*  | NONE  | NONE   | NONE  |   |
| Precipitate        | scalar  | Visual*  | NONE  | NONE   | NONE  |   |
| Silt               | scalar  | Visual*  | NONE  | NONE   | NONE  |   |
| Debris             | scalar  | Visual*  | NONE  | VLITE  | VLITE   |   |
| Sand/Dirt          | scalar  | Visual*  | NONE  | NONE   | NONE  |   |
| Appearance         | scalar  | Visual*  |   |  | NORML   |   |
| Odor               | scalar  | Visual*  | NORML   | NORML  | NORML   |   |
| Emulsified Water   | scalar  | Visual*  | >0.2  | .2%  | NEG   |   |
| Free Water         |   | Visual*  |   |  | NEG   |   |
|                    |   |  | limit/base  |  |   | history2  |
|                    |   |  | in in Dase  |  |   |   |
|                    |   |  | 11 11 11  |  |   |   |
| SAMPLE IMAGES      | 5   | method   | limit/base  | current  | history1  | history2  |
| Color              |   |  |   | 10073  |   | no image  |
| Bottom             |   |  |   |  | 00  | no image  |
| Ferrous Alloys     |   |  |   | Samo   |   |   |
|                    |   |  |   |  |   |   |
| 2 0 12/5           |   |  | 160-<br>140-<br>52  |  |   |   |
|                    |   |  | 140<br>47/11 up<br>120  | Abnormal   |   |   |
| Non-ferrous Metals | s   |  | 140<br>1201<br>1207<br>1007   | Abnormal   |   |   |
|                    | 5   |  | 140<br>47<br>120<br>120<br>100<br>100   | dbnormal   |   |   |
| Non-ferrous Metals | 5   |  | 140<br>1201<br>1207<br>1007   | Abnormal   |   |   |
| Non-ferrous Metals | 5   |  | 140<br>47<br>120<br>120<br>100<br>100   | Abnormal   |   |   |
| Non-ferrous Metals | 5   |  | 140<br>47<br>120<br>120<br>100<br>100<br>100<br>100   | Abnormal   |   |   |
| Non-ferrous Metals | 5   |  | 140<br>120<br>100<br>80<br>60<br>40   | Abnormal   |   |   |
| Non-ferrous Metals | 5   |  | 140.<br>120.<br>100.<br>60.<br>40.<br>20.<br>100.   |  |   | 172   |
| Non-ferrous Metals | 5   |  | 140<br>120<br>100<br>80<br>60<br>40   | Abnormal   |   | 11 11 12 1  |
| Non-ferrous Metals | 5   |  | 140.<br>120.<br>100.<br>60.<br>40.<br>20.<br>100.   |  |   | and 1724  |
| Non-ferrous Metals | 5   |  | 140.<br>120.<br>100.<br>60.<br>40.<br>20.<br>100.   |  |   | Let 1124  |
| Non-ferrous Metals | 5   |  | 140.<br>120.<br>100.<br>60.<br>40.<br>20.<br>100.   |  |   | ant 1724  |
| Non-ferrous Metals | 5   |  | 140.<br>120.<br>100.<br>60.<br>40.<br>20.<br>100.   |  |   | 2011/04   |
| Non-ferrous Metals | 5   |  | 140<br>120<br>100<br>100<br>100<br>100  |  |   | 2011/04   |
| Non-ferrous Metals | 5   |  | 140<br>120<br>100<br>100<br>100<br>100  |  |   | Part 174  |
| Non-ferrous Metals | 5   |  | 140<br>120<br>100<br>100<br>100<br>100  |  |   | Act int   |
|                    | Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Free Water<br>FLUID PROPERT<br>Visc @ 40°C<br>SAMPLE IMAGES<br>Color<br>Bottom<br>GRAPHS<br>Ferrous Alloys | Silt scalar<br>Debris scalar<br>Sand/Dirt scalar<br>Appearance scalar<br>Odor scalar<br>Emulsified Water scalar<br>Emulsified Water scalar<br>Free Water scalar<br>Free Water scalar<br>Free Water cstar<br>Scalar<br>Scalar<br>Entrop scalar<br>SAMPLE IMAGES<br>Color<br>Color<br>Bottom<br>GRAPHS<br>Ferrous Alloys | Silt  scalar  Visual*    Debris  scalar  Visual*    Sand/Dirt  scalar  Visual*    Appearance  scalar  Visual*    Odor  scalar  Visual*    Odor  scalar  Visual*    Odor  scalar  Visual*    Emulsified Water  scalar  Visual*    Free Water  scalar  Visual*    FLUID PROPERTIES  method    Visc @ 40°C  cSt  ASTM D7279(m)    SAMPLE IMAGES  method    Color  Samethod    Bottom | Silt  scalar  Visual*  NONE    Debris  scalar  Visual*  NONE    Sand/Dirt  scalar  Visual*  NONE    Appearance  scalar  Visual*  NORML    Odor  scalar  Visual*  NORML    Odor  scalar  Visual*  NORML    Odor  scalar  Visual*  NORML    Emulsified Water  scalar  Visual*  >0.2    Free Water  scalar  Visual*  >0.2    Free Water  scalar  Visual*  >0.2    FLUID PROPERTIES  method  limit/base    Visc @ 40°C  cSt  ASTM D7279(m)    SAMPLE IMAGES  method  limit/base    Color | Silt  scalar  Visual*  NONE  NONE    Debris  scalar  Visual*  NONE  VLITE    Sand/Dirt  scalar  Visual*  NONE  NONE    Appearance  scalar  Visual*  NONE  NONE    Appearance  scalar  Visual*  NORML  WGOIL    Odor  scalar  Visual*  NORML  WGOIL    Odor  scalar  Visual*  NORML  WGOIL    Odor  scalar  Visual*  NORML  NORML    Emulsified Water  scalar  Visual*  >0.2  .2%    Free Water  scalar  Visual*  >0.2  .2%    FtLUID PROPERTIES  method  limit/base  current    Visc @ 40°C  cSt  ASTM D7279(m)  225    SAMPLE IMAGES  method  limit/base  current    Color        Bottom         a         a </th <th>Silt  scalar  Visual*  NONE  NONE  NONE  NONE    Debris  scalar  Visual*  NONE  VLITE  VLITE    Sand/Dirt  scalar  Visual*  NONE  NONE  NONE    Appearance  scalar  Visual*  NORML  WGOIL  NORML    Appearance  scalar  Visual*  NORML  WGOIL  NORML    Odor  scalar  Visual*  NORML  NORML  NORML    Odor  scalar  Visual*  NORML  NORML  NORML    Odor  scalar  Visual*  NORML  NORML  NORML    Emulsified Water  scalar  Visual*  &gt;0.2  .2%  NEG    Free Water  scalar  Visual*  NOR  Imit/base  current  history1    Visc @ 40°C  cSt  ASTM D7279(m)  225  224    SAMPLE IMAGES  method  limit/base  current  history1    Color </th> | Silt  scalar  Visual*  NONE  NONE  NONE  NONE    Debris  scalar  Visual*  NONE  VLITE  VLITE    Sand/Dirt  scalar  Visual*  NONE  NONE  NONE    Appearance  scalar  Visual*  NORML  WGOIL  NORML    Appearance  scalar  Visual*  NORML  WGOIL  NORML    Odor  scalar  Visual*  NORML  NORML  NORML    Odor  scalar  Visual*  NORML  NORML  NORML    Odor  scalar  Visual*  NORML  NORML  NORML    Emulsified Water  scalar  Visual*  >0.2  .2%  NEG    Free Water  scalar  Visual*  NOR  Imit/base  current  history1    Visc @ 40°C  cSt  ASTM D7279(m)  225  224    SAMPLE IMAGES  method  limit/base  current  history1    Color |

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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