

# **OIL ANALYSIS REPORT**



CEC-R **LINK-BELT RTC-8065S II J9K4-4083** 

Component Front Axle

GEAR OIL SAE 85W140 (5 GAL)



### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

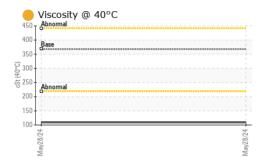
### Fluid Condition

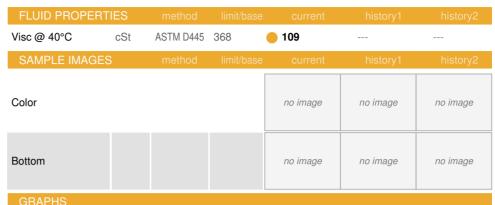
The oil viscosity is lower than normal. Confirm oil type.

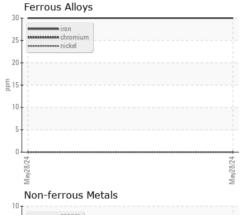
| Machine Age         hrs         Client Info         5560   | 0 (5 GAL)        |        |             |            | May2024    |          |          |
|--|------------------|--------|-------------|------------|------------|----------|----------|
| Client Info   S560   | SAMPLE INFORM    | IATION | method      | limit/base | current    | history1 | history2 |
| Comparison   | Sample Number    |        | Client Info |            | LBC0000222 |          |          |
| Machine Age         hrs         Client Info         5560   | Sample Date      |        | Client Info |            |            |          |          |
| Client Info   Changed    | Machine Age      | hrs    | Client Info |            | -          |          |          |
| CONTAMINATION   method   limit/base   current   history1   history2  | Oil Age          | hrs    | Client Info |            | 5560       |          |          |
| CONTAMINATION   method   limit/base   current   history1   history2  | •                |        | Client Info |            | Changed    |          |          |
| Water         WC Method         >0.2         NEG            WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >500         30             Chromium         ppm         ASTM D5185m         >10         0             Nickel         ppm         ASTM D5185m         >10         0             Silver         ppm         ASTM D5185m         0             Aluminum         ppm         ASTM D5185m         >25         <1  | Sample Status    |        |             |            |            |          |          |
| WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >500         30   | CONTAMINATION    | I      | method      | limit/base | current    | history1 | history2 |
| Chromium   | Water            |        | WC Method   | >0.2       | NEG        |          |          |
| Description  | WEAR METALS      |        | method      | limit/base | current    | history1 | history2 |
| Nickel   | Iron             | ppm    | ASTM D5185m | >500       | 30         |          |          |
| Description  | Chromium         | ppm    | ASTM D5185m | >10        | 0          |          |          |
| Silver   | Nickel           | ppm    | ASTM D5185m | >10        | 0          |          |          |
| Astronomic   Ast | Titanium         | ppm    | ASTM D5185m |            | 0          |          |          |
| Lead   | Silver           | ppm    | ASTM D5185m |            | 0          |          |          |
| Copper         ppm         ASTM D5185m         >50         <1             Tin         ppm         ASTM D5185m         >10         <1   | Aluminum         | ppm    | ASTM D5185m | >25        | <1         |          |          |
| Tin  | Lead             | ppm    | ASTM D5185m | >25        | 0          |          |          |
| Vanadium         ppm         ASTM D5185m         <1             Cadmium         ppm         ASTM D5185m         <1             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         400         28             Barium         ppm         ASTM D5185m         200         <1             Molybdenum         ppm         ASTM D5185m         12         <1             Manganese         ppm         ASTM D5185m         12         <1             Magnesium         ppm         ASTM D5185m         12         1             Calcium         ppm         ASTM D5185m         150         22             Phosphorus         ppm         ASTM D5185m         125         13             Zinc         ppm         ASTM D5185m         125         13             Sulfur         ppm         ASTM D5185m         22         2 <td>Copper</td> <td>ppm</td> <td>ASTM D5185m</td> <td>&gt;50</td> <th>&lt;1</th> <td></td> <td></td>  | Copper           | ppm    | ASTM D5185m | >50        | <1         |          |          |
| ADDITIVES  | Tin              | ppm    | ASTM D5185m | >10        | <1         |          |          |
| ADDITIVES  | Vanadium         | ppm    | ASTM D5185m |            | <1         |          |          |
| Boron  | Cadmium          | ppm    | ASTM D5185m |            | <1         |          |          |
| Barium   | ADDITIVES        |        | method      | limit/base | current    | history1 | history2 |
| Molybdenum         ppm         ASTM D5185m         12         <1             Manganese         ppm         ASTM D5185m         3             Magnesium         ppm         ASTM D5185m         12         1             Calcium         ppm         ASTM D5185m         150         22             Phosphorus         ppm         ASTM D5185m         1650         626             Zinc         ppm         ASTM D5185m         125         13             Sulfur         ppm         ASTM D5185m         125         13             Sulfur         ppm         ASTM D5185m         22500         28692             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         2             Sodium         ppm         ASTM D5185m         2             Potassium         ppm         ASTM D5185m         20         2   | Boron            | ppm    | ASTM D5185m | 400        | 28         |          |          |
| Manganese         ppm         ASTM D5185m         12         1             Calcium         ppm         ASTM D5185m         150         22             Phosphorus         ppm         ASTM D5185m         150         626             Zinc         ppm         ASTM D5185m         125         13             Sulfur         ppm         ASTM D5185m         22500         28692             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >75         2             Sodium         ppm         ASTM D5185m         >20         2             Potassium         ppm         ASTM D5185m         >20         2             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual  | Barium           | ppm    | ASTM D5185m | 200        | <1         |          |          |
| Magnesium         ppm         ASTM D5185m         12         1             Calcium         ppm         ASTM D5185m         150         22             Phosphorus         ppm         ASTM D5185m         1650         626             Zinc         ppm         ASTM D5185m         125         13             Sulfur         ppm         ASTM D5185m         22500         28692             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >75         2             Sodium         ppm         ASTM D5185m         >20         2             Potassium         ppm         ASTM D5185m         >20         2             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual   | Molybdenum       | ppm    | ASTM D5185m | 12         | <1         |          |          |
| Calcium         ppm         ASTM D5185m         150         22             Phosphorus         ppm         ASTM D5185m         1650         626             Zinc         ppm         ASTM D5185m         125         13             Sulfur         ppm         ASTM D5185m         22500         28692             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >75         2             Sodium         ppm         ASTM D5185m         20         2             Potassium         ppm         ASTM D5185m         >20         2             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE            Yellow Metal         scalar         *Visual         NONE         NONE            Precipitate         scalar         *Visual         NONE         NONE </td <td>Manganese</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <th>3</th> <td></td> <td></td>   | Manganese        | ppm    | ASTM D5185m |            | 3          |          |          |
| Phosphorus         ppm         ASTM D5185m         1650         626             Zinc         ppm         ASTM D5185m         125         13             Sulfur         ppm         ASTM D5185m         22500         28692             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >75         2             Sodium         ppm         ASTM D5185m         >20         2             Potassium         ppm         ASTM D5185m         >20         2             Potassium         ppm         ASTM D5185m         >20         2             VISUAL         method         limit/base         current         history1         history2           VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE             Yellow Metal         scalar         *Visual         NONE  | Magnesium        | ppm    | ASTM D5185m | 12         | 1          |          |          |
| Zinc   | Calcium          | ppm    | ASTM D5185m | 150        | 22         |          |          |
| Sulfur         ppm         ASTM D5185m         22500         28692             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         2             Sodium         ppm         ASTM D5185m         2             Potassium         ppm         ASTM D5185m         20         2             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         NORML         NOR  | Phosphorus       | ppm    | ASTM D5185m | 1650       | 626        |          |          |
| CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         2             Sodium         ppm         ASTM D5185m         2             Potassium         ppm         ASTM D5185m         20         2             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             Sand/Dirt         scalar         *Visual         NORML         NORML            Appearance         scalar         *Visual         NORML         NORML            Codor         scalar         *Visual   | Zinc             | ppm    | ASTM D5185m | 125        | 13         |          |          |
| Silicon   ppm   ASTM D5185m   >75   2  | Sulfur           | ppm    | ASTM D5185m | 22500      | 28692      |          |          |
| Sodium   | CONTAMINANTS     |        | method      | limit/base | current    | history1 | history2 |
| Sodium   | Silicon          | ppm    | ASTM D5185m | >75        | 2          |          |          |
| 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         NORML         NORML             Appearance         scalar         *Visual         NORML         NORML             Codor         scalar         *Visual         >0.2         NEG  | Sodium           | ppm    | ASTM D5185m |            | 2          |          |          |
| 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         NORML         NORML             Appearance         scalar         *Visual         NORML         NORML             Codor         scalar         *Visual         >0.2         NEG   | Potassium        | ppm    | ASTM D5185m | >20        | 2          |          |          |
| 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         >0.2         NEG             Emulsified Water         scalar         *Visual         >0.2         NEG  | VISUAL           |        | method      | limit/base | current    | history1 | history2 |
| 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         >0.2         NEG   | White Metal      | 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         >0.2         NEG  | Yellow Metal     | 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         >0.2         NEG  | Precipitate      | scalar | *Visual     | NONE       | NONE       |          |          |
| Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.2         NEG  | Silt             | scalar | *Visual     | NONE       | NONE       |          |          |
| Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.2 NEG   | Debris           | scalar | *Visual     | NONE       | NONE       |          |          |
| Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.2 NEG   | Sand/Dirt        | scalar | *Visual     | NONE       | NONE       |          |          |
| Emulsified Water scalar *Visual >0.2 NEG   | Appearance       | scalar | *Visual     | NORML      | NORML      |          |          |
| Emulsified Water scalar *Visual >0.2 NEG   | Odor             | scalar | *Visual     | NORML      | NORML      |          |          |
| Free Water scalar *Visual NEG  | Emulsified Water | scalar | *Visual     |            | NEG        |          |          |
|  | Free Water       | scalar | *Visual     |            | NEG        |          |          |

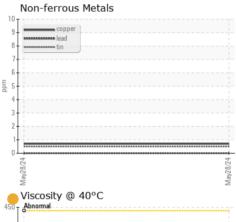


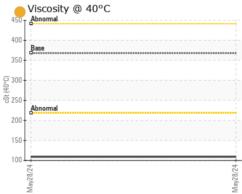
## **OIL ANALYSIS REPORT**















Certificate 12367

Laboratory

Sample No. : LBC0000222 Lab Number : 06195711 Unique Number : 11057834

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

: 30 May 2024 Tested : 31 May 2024 Diagnosed

: 01 Jun 2024 - Don Baldridge

Columbus Equipment Co. - P103900 2329 Performance Way Columbus, OH US 43207

Test Package : CONST To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: Tanner Web tannerw@columbusequipment.com T:

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: LBCP103900 [WUSCAR] 06195711 (Generated: 06/01/2024 14:23:39) Rev: 1

Submitted By: Tanner Web

F: