



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**Blythe & Zachary JV CSA - I85 SC [BLYTHE]**  
Machine Id  
**VOLVO EC480E 3004957 (S/N 480E310929)**  
Component  
**Right Swing Drive**  
Fluid  
**GEAR OIL SAE 85W140 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current     | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|----------|----------|
| Sample Number  |     | Client Info |           | VCP189550   | ---      | ---      |
| Sample Date    |     | Client Info |           | 10 Oct 2018 | ---      | ---      |
| Machine Age    | hrs | Client Info |           | 501         | ---      | ---      |
| Oil Age        | hrs | Client Info |           | 0           | ---      | ---      |
| Filter Age     | hrs | Client Info |           | 0           | ---      | ---      |
| Oil Changed    |     | Client Info |           | Changed     | ---      | ---      |
| Filter Changed |     | Client Info |           | N/A         | ---      | ---      |
| Sample Status  |     |             |           | NORMAL      | ---      | ---      |

### WEAR

All component wear rates are normal.

|              |        |             |       |      |     |     |
|--------------|--------|-------------|-------|------|-----|-----|
| Iron         | ppm    | ASTM D5185m | >1200 | 10   | --- | --- |
| Chromium     | ppm    | ASTM D5185m |       | <1   | --- | --- |
| Nickel       | ppm    | ASTM D5185m |       | <1   | --- | --- |
| Titanium     | ppm    | ASTM D5185m |       | 0    | --- | --- |
| Silver       | ppm    | ASTM D5185m |       | 0    | --- | --- |
| Aluminum     | ppm    | ASTM D5185m |       | <1   | --- | --- |
| Lead         | ppm    | ASTM D5185m | >50   | 0    | --- | --- |
| Copper       | ppm    | ASTM D5185m | >50   | 0    | --- | --- |
| Tin          | ppm    | ASTM D5185m |       | 0    | --- | --- |
| Vanadium     | ppm    | ASTM D5185m |       | 0    | --- | --- |
| White Metal  | scalar | *Visual     | NONE  | NONE | --- | --- |
| Yellow Metal | scalar | *Visual     | NONE  | NONE | --- | --- |

### CONTAMINATION

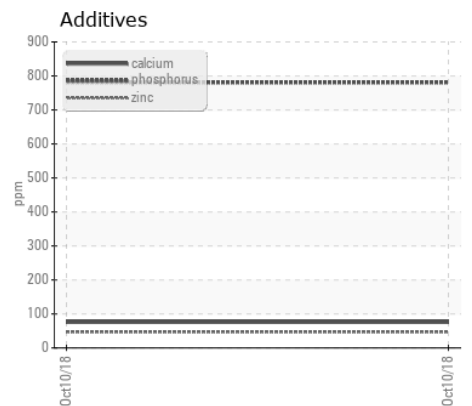
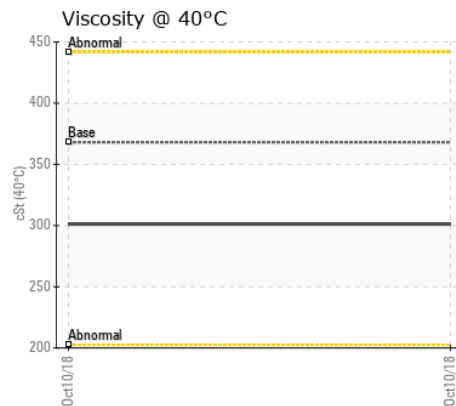
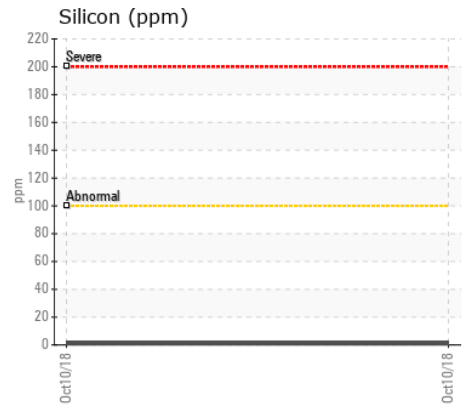
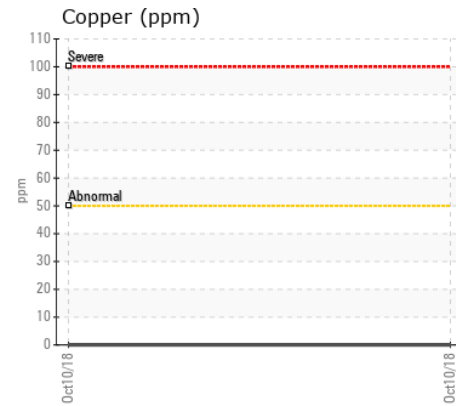
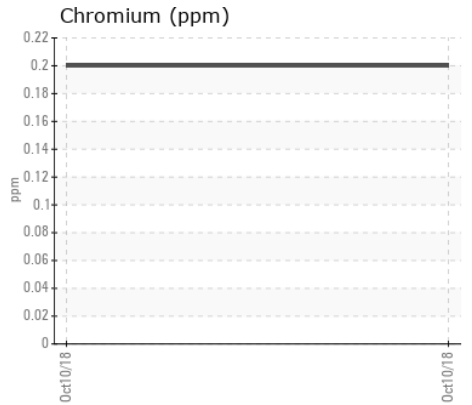
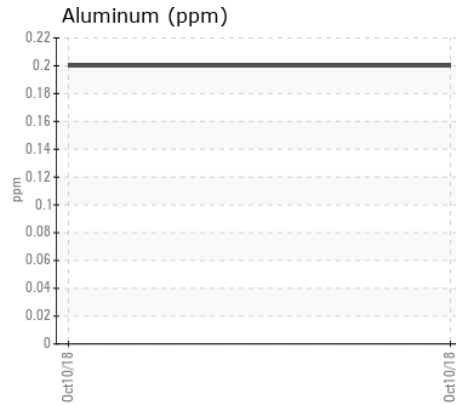
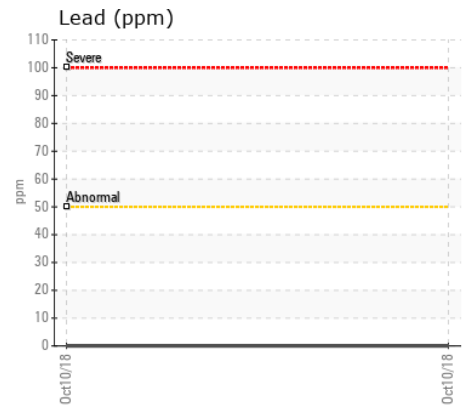
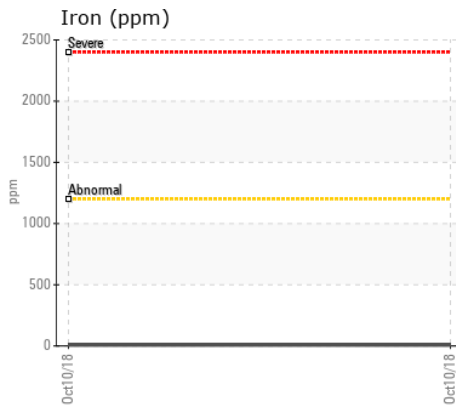
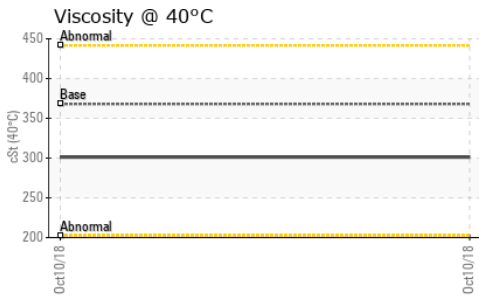
There is no indication of any contamination in the oil.

|                  |        |             |       |       |     |     |
|------------------|--------|-------------|-------|-------|-----|-----|
| Silicon          | ppm    | ASTM D5185m | >100  | 1     | --- | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | 3     | --- | --- |
| Water            |        | WC Method   | >0.25 | NEG   | --- | --- |
| 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     | >0.25 | NEG   | --- | --- |

### FLUID CONDITION

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

|             |     |             |       |       |     |     |
|-------------|-----|-------------|-------|-------|-----|-----|
| Sodium      | ppm | ASTM D5185m |       | <1    | --- | --- |
| Boron       | ppm | ASTM D5185m | 400   | 136   | --- | --- |
| Barium      | ppm | ASTM D5185m | 200   | 0     | --- | --- |
| Molybdenum  | ppm | ASTM D5185m | 12    | 2     | --- | --- |
| Manganese   | ppm | ASTM D5185m |       | <1    | --- | --- |
| Magnesium   | ppm | ASTM D5185m | 12    | 17    | --- | --- |
| Calcium     | ppm | ASTM D5185m | 150   | 76    | --- | --- |
| Phosphorus  | ppm | ASTM D5185m | 1650  | 781   | --- | --- |
| Zinc        | ppm | ASTM D5185m | 125   | 47    | --- | --- |
| Sulfur      | ppm | ASTM D5185m | 22500 | 22506 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445   | 368   | 301.2 | --- | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP189550  
**Lab Number** : 04570573  
**Unique Number** : 8364489  
**Test Package** : MOB 1

**Received** : 12 Oct 2018  
**Tested** : 15 Oct 2018  
**Diagnosed** : 15 Oct 2018 - Jonathan Hester

**BLYTHE CONSTRUCTION INC**  
 2911 N GRAHAM STREET  
 CHARLOTTE, NC  
 US 28231  
 Contact: Service Manager

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

\* - 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)

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