



# VOLVO

## OIL ANALYSIS REPORT

|                 |           |
|-----------------|-----------|
| WEAR            | NORMAL    |
| CONTAMINATION   | NORMAL    |
| FLUID CONDITION | ATTENTION |

Area

[SPM730768]

Machine Id

ASV RT40 ASVRT040JPD507844

Component

Diesel Engine

Fluid

MOBIL 15W40 (--- GAL)

### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current     | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|----------|----------|
| Sample Number  |     | Client Info |           | VCP443326   | ---      | ---      |
| Sample Date    |     | Client Info |           | 28 Jun 2024 | ---      | ---      |
| Machine Age    | hrs | Client Info |           | 200         | ---      | ---      |
| Oil Age        | hrs | Client Info |           | 0           | ---      | ---      |
| Filter Age     | hrs | Client Info |           | 0           | ---      | ---      |
| Oil Changed    |     | Client Info |           | Changed     | ---      | ---      |
| Filter Changed |     | Client Info |           | Changed     | ---      | ---      |
| Sample Status  |     |             |           | ATTENTION   | ---      | ---      |

### WEAR

Metal levels are typical for a new component breaking in.

|              |        |             |      |      |     |     |
|--------------|--------|-------------|------|------|-----|-----|
| Iron         | ppm    | ASTM D5185m | >100 | 29   | --- | --- |
| Chromium     | ppm    | ASTM D5185m | >20  | <1   | --- | --- |
| Nickel       | ppm    | ASTM D5185m | >4   | <1   | --- | --- |
| Titanium     | ppm    | ASTM D5185m |      | 0    | --- | --- |
| Silver       | ppm    | ASTM D5185m | >3   | 0    | --- | --- |
| Aluminum     | ppm    | ASTM D5185m | >20  | 4    | --- | --- |
| Lead         | ppm    | ASTM D5185m | >40  | 4    | --- | --- |
| Copper       | ppm    | ASTM D5185m | >330 | 28   | --- | --- |
| Tin          | ppm    | ASTM D5185m | >15  | <1   | --- | --- |
| Vanadium     | ppm    | ASTM D5185m |      | 0    | --- | --- |
| White Metal  | scalar | *Visual     | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual     | NONE | NONE | --- | --- |

### CONTAMINATION

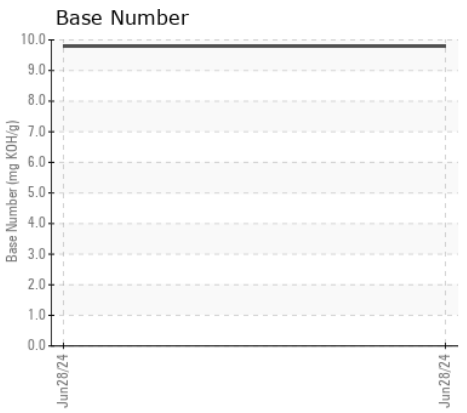
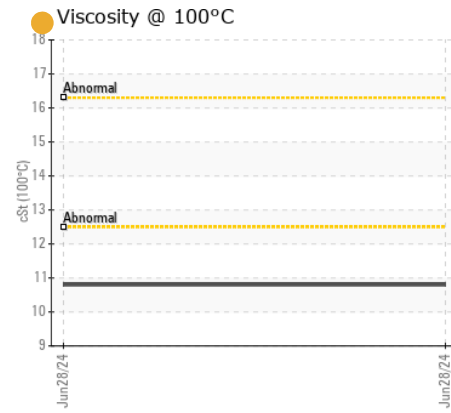
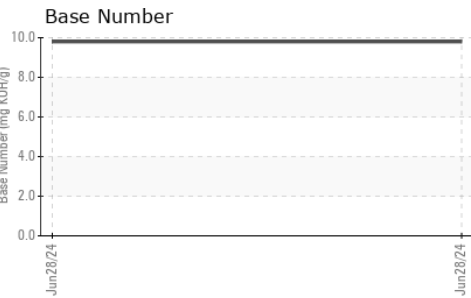
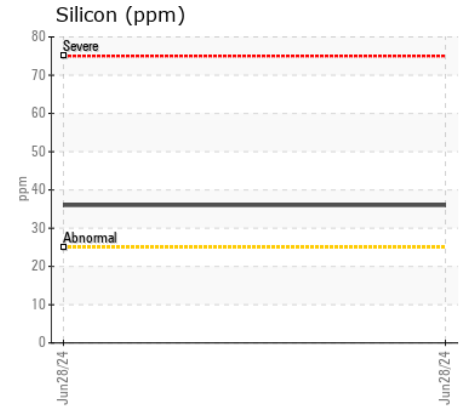
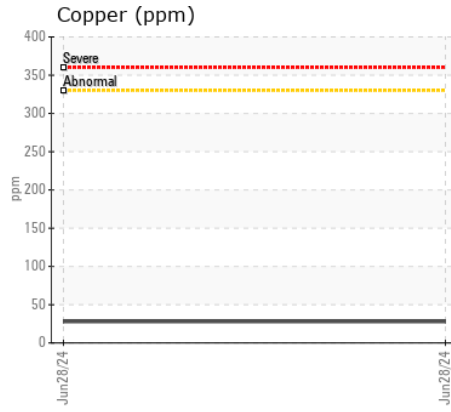
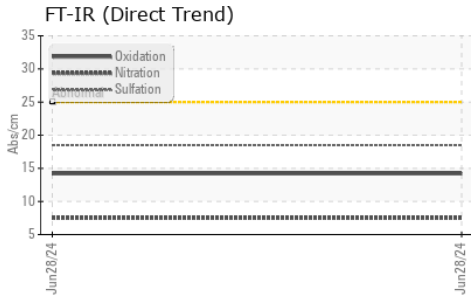
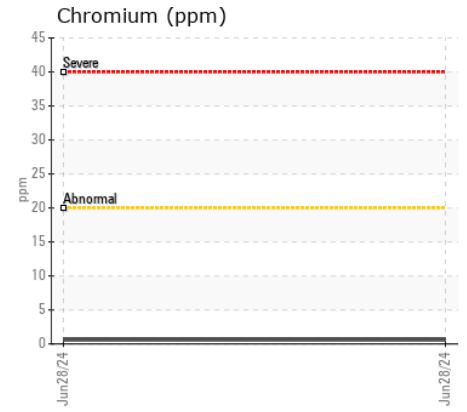
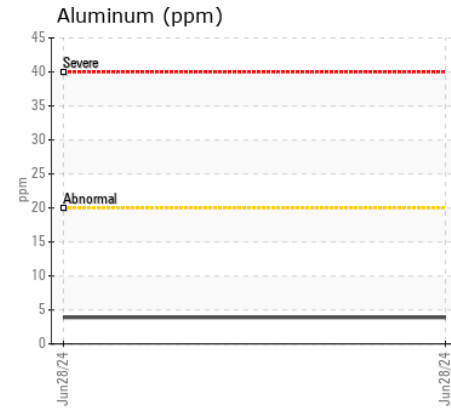
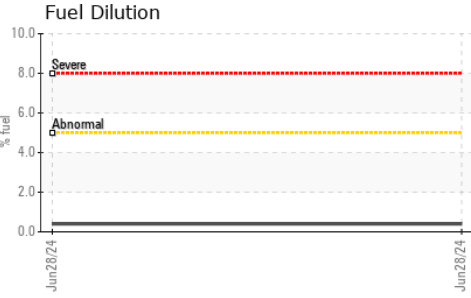
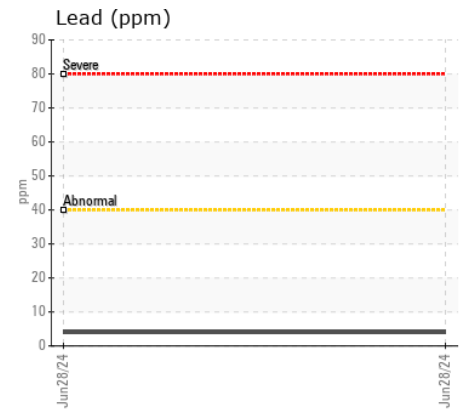
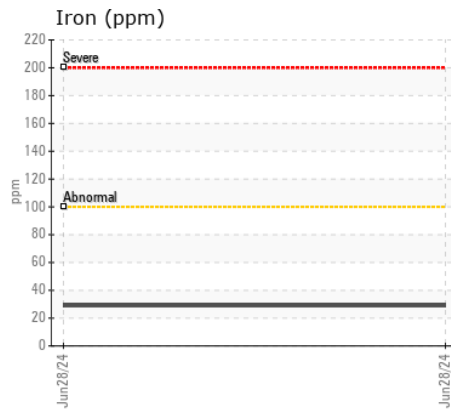
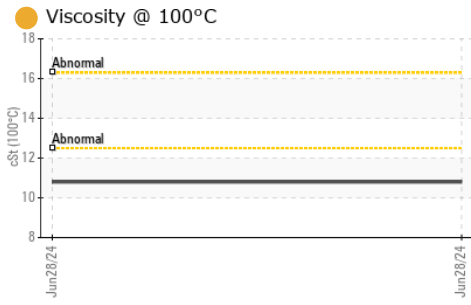
Fuel content negligible. There is no indication of any contamination in the oil.

|                  |          |             |       |       |     |     |
|------------------|----------|-------------|-------|-------|-----|-----|
| Silicon          | ppm      | ASTM D5185m | >25   | 36    | --- | --- |
| Potassium        | ppm      | ASTM D5185m | >20   | 2     | --- | --- |
| Fuel             | %        | ASTM D3524  | >5    | 0.4   | --- | --- |
| Water            |          | WC Method   | >0.2  | NEG   | --- | --- |
| Glycol           |          | WC Method   |       | NEG   | --- | --- |
| Soot %           | %        | *ASTM D7844 | >3    | 0.3   | --- | --- |
| Nitration        | Abs/cm   | *ASTM D7624 | >20   | 7.5   | --- | --- |
| Sulfation        | Abs/.1mm | *ASTM D7415 | >30   | 18.5  | --- | --- |
| 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   | --- | --- |

### FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

|                  |          |             |      |      |     |     |
|------------------|----------|-------------|------|------|-----|-----|
| Sodium           | ppm      | ASTM D5185m | >118 | 8    | --- | --- |
| Boron            | ppm      | ASTM D5185m |      | 8    | --- | --- |
| Barium           | ppm      | ASTM D5185m |      | 4    | --- | --- |
| Molybdenum       | ppm      | ASTM D5185m |      | 66   | --- | --- |
| Manganese        | ppm      | ASTM D5185m |      | <1   | --- | --- |
| Magnesium        | ppm      | ASTM D5185m |      | 792  | --- | --- |
| Calcium          | ppm      | ASTM D5185m |      | 1389 | --- | --- |
| Phosphorus       | ppm      | ASTM D5185m |      | 1035 | --- | --- |
| Zinc             | ppm      | ASTM D5185m |      | 1240 | --- | --- |
| Sulfur           | ppm      | ASTM D5185m |      | 3262 | --- | --- |
| Oxidation        | Abs/.1mm | *ASTM D7414 | >25  | 14.2 | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896  |      | 9.8  | --- | --- |
| Visc @ 100°C     | cSt      | ASTM D445   |      | 10.8 | --- | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP443326 **Received** : 03 Jul 2024  
**Lab Number** : 06226969 **Tested** : 08 Jul 2024  
**Unique Number** : 11110462 **Diagnosed** : 08 Jul 2024 - Don Baldridge  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel, TBN )

**ALTA EQUIPMENT COMPANY**  
 5151 DR MARTIN LUTHER KING BLVD  
 FORT MYERS, FL  
 US 33905  
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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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