



**PERFORMANCE  
UNDER  
PRESSURE**

**OIL ANALYSIS REPORT**

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

Machine Id  
**MILACRON EXT 5 (S/N ES5A0200018)**

Component  
**Gearbox**

Fluid  
**CASTROL CLP (95 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>RP0028969</b>   | RP0028994   | RP0020827   |
| Sample Date    |     | Client Info |           | <b>21 Dec 2023</b> | 28 Jun 2023 | 17 Jan 2023 |
| Machine Age    | hrs | Client Info |           | <b>33806</b>       | 31077       | 28614       |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>N/A</b>         | N/A         | N/A         |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | N/A         | N/A         |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

**WEAR**

All component wear rates are normal.

|              |        |             |      |             |      |      |
|--------------|--------|-------------|------|-------------|------|------|
| Iron         | ppm    | ASTM D5185m | >200 | <b>4</b>    | 4    | 4    |
| Chromium     | ppm    | ASTM D5185m | >15  | <b>0</b>    | 0    | 0    |
| Nickel       | ppm    | ASTM D5185m | >15  | <b>0</b>    | 0    | 0    |
| Titanium     | ppm    | ASTM D5185m |      | <b>0</b>    | 0    | 0    |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>    | 0    | <1   |
| Aluminum     | ppm    | ASTM D5185m | >25  | <b>0</b>    | 0    | 0    |
| Lead         | ppm    | ASTM D5185m | >100 | <b>0</b>    | 0    | 0    |
| Copper       | ppm    | ASTM D5185m | >200 | <b>0</b>    | 0    | <1   |
| Tin          | ppm    | ASTM D5185m | >25  | <b>0</b>    | 0    | <1   |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>    | 0    | 0    |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b> | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b> | NONE | NONE |

**CONTAMINATION**

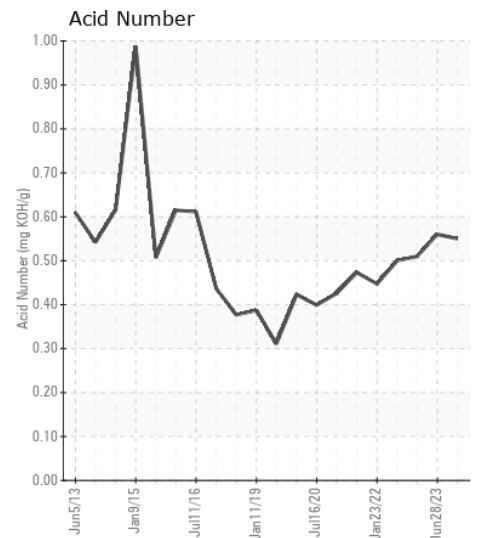
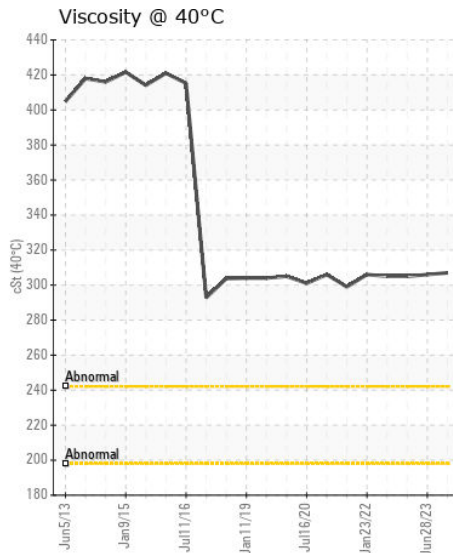
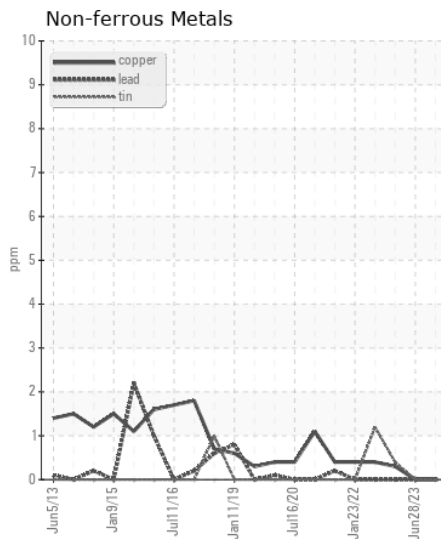
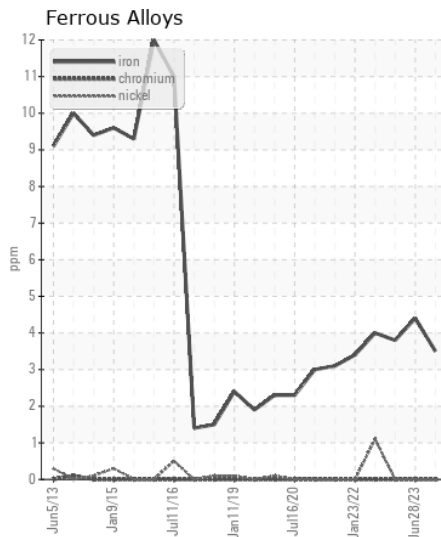
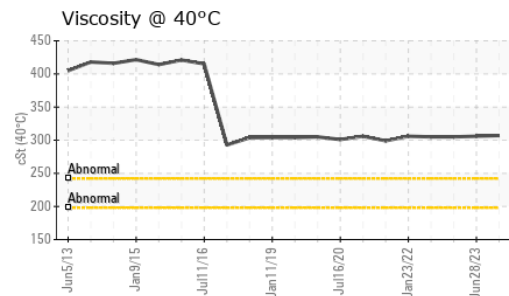
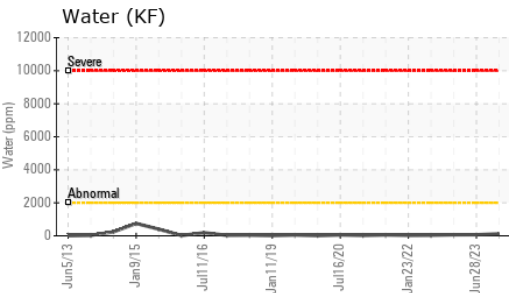
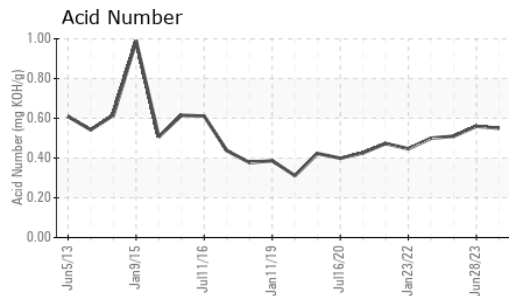
The water content is negligible. There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >50   | <b>&lt;1</b> | 1     | 1     |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>0</b>     | <1    | 1     |
| Water            | %      | ASTM D6304  | >0.2  | <b>0.011</b> | 0.006 | 0.006 |
| ppm Water        | ppm    | ASTM D6304  | >2000 | <b>118</b>   | 66.0  | 62.3  |
| Silt             | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Debris           | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Sand/Dirt        | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Appearance       | scalar | *Visual     | NORML | <b>NORML</b> | NORML | NORML |
| Odor             | scalar | *Visual     | NORML | <b>NORML</b> | NORML | NORML |
| Emulsified Water | scalar | *Visual     | >0.2  | <b>NEG</b>   | NEG   | NEG   |

**FLUID CONDITION**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

|                  |          |             |  |             |      |      |
|------------------|----------|-------------|--|-------------|------|------|
| Sodium           | ppm      | ASTM D5185m |  | <b>0</b>    | <1   | 1    |
| Boron            | ppm      | ASTM D5185m |  | <b>0</b>    | 0    | 0    |
| Barium           | ppm      | ASTM D5185m |  | <b>0</b>    | 0    | 0    |
| Molybdenum       | ppm      | ASTM D5185m |  | <b>21</b>   | <1   | 2    |
| Manganese        | ppm      | ASTM D5185m |  | <b>0</b>    | <1   | 0    |
| Magnesium        | ppm      | ASTM D5185m |  | <b>0</b>    | <1   | <1   |
| Calcium          | ppm      | ASTM D5185m |  | <b>9</b>    | 13   | 12   |
| Phosphorus       | ppm      | ASTM D5185m |  | <b>309</b>  | 324  | 310  |
| Zinc             | ppm      | ASTM D5185m |  | <b>20</b>   | 8    | 5    |
| Acid Number (AN) | mg KOH/g | ASTM D8045  |  | <b>0.55</b> | 0.56 | 0.51 |
| Visc @ 40°C      | cSt      | ASTM D445   |  | <b>307</b>  | 306  | 305  |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0028969 **Received** : 09 Jan 2024  
**Lab Number** : 06055945 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10821894 **Diagnostician** : Wes Davis  
**Test Package** : PLANT ( Additional Tests: KF )

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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)