



LEAHY-WOLF
Lubricating specialists since 1946

OIL ANALYSIS REPORT

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

Area

TA Machines

Machine Id

SANY SY500H TA891 (S/N SY0507CC00268)

Component

Diesel Engine

Fluid

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | LW0008262 | LW0006609 | LW0006305 |
| Sample Date | | Client Info | | 04 Jan 2024 | 15 Feb 2023 | 19 Dec 2022 |
| Machine Age | hrs | Client Info | | 1016 | 653 | 361 |
| Oil Age | hrs | Client Info | | 1016 | 653 | 361 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Filter Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

Metal levels are typical for a new component breaking in.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >100 | 10 | 11 | 26 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | 1 |
| Nickel | ppm | ASTM D5185m | >4 | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | <1 | 2 | 2 |
| Lead | ppm | ASTM D5185m | >40 | 1 | 0 | 1 |
| Copper | ppm | ASTM D5185m | >330 | 1 | 2 | 11 |
| Tin | ppm | ASTM D5185m | >15 | 1 | <1 | 1 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

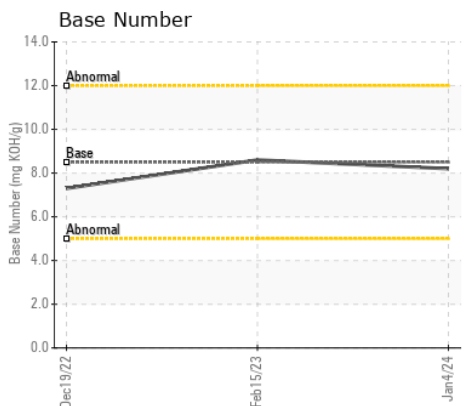
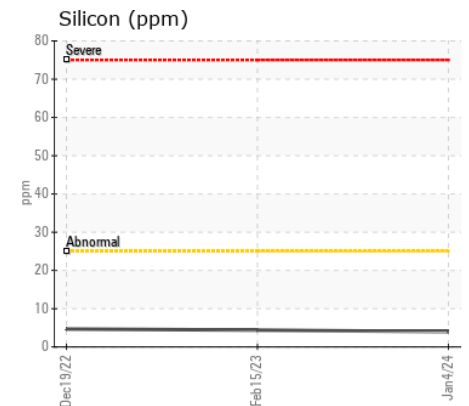
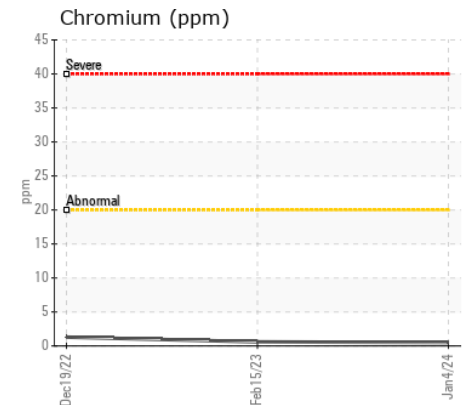
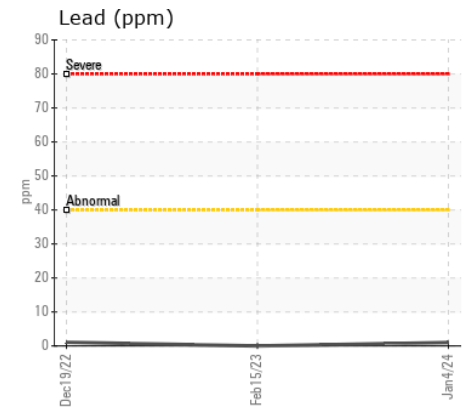
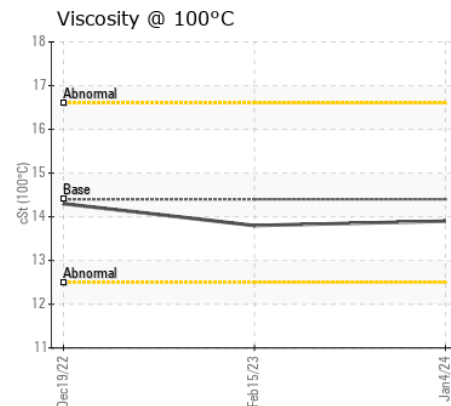
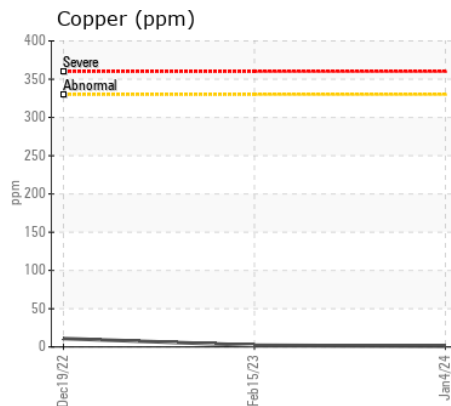
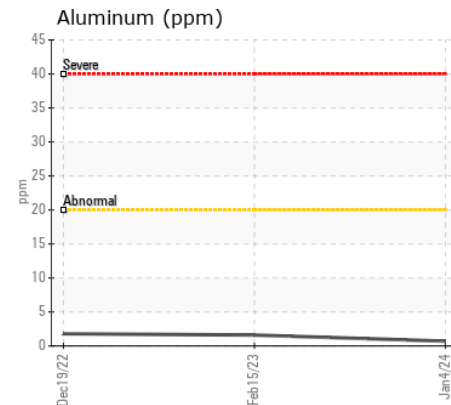
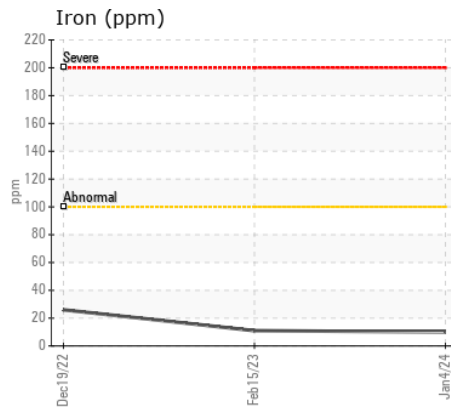
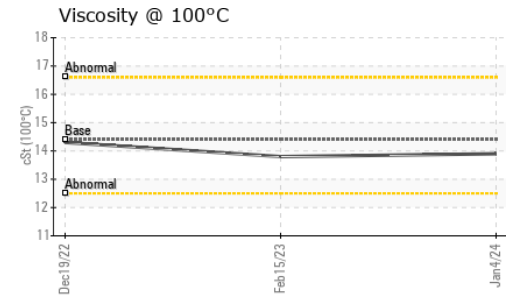
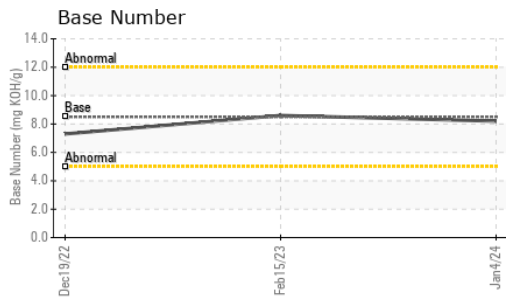
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >25 | 4 | 4 | 5 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 3 | 3 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 0.2 | 0.2 | 0.3 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 8.7 | 8.7 | 9.5 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 20.0 | 19.7 | 21.8 |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|------|--------------|------|------|
| Sodium | ppm | ASTM D5185m | >158 | 3 | 4 | 3 |
| Boron | ppm | ASTM D5185m | 250 | 21 | 27 | 18 |
| Barium | ppm | ASTM D5185m | 10 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 100 | 42 | 37 | 29 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | 2 |
| Magnesium | ppm | ASTM D5185m | 450 | 899 | 604 | 94 |
| Calcium | ppm | ASTM D5185m | 3000 | 1608 | 1548 | 2433 |
| Phosphorus | ppm | ASTM D5185m | 1150 | 1209 | 1021 | 1007 |
| Zinc | ppm | ASTM D5185m | 1350 | 1464 | 1228 | 1270 |
| Sulfur | ppm | ASTM D5185m | 4250 | 3794 | 3133 | 4162 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 15.1 | 14.5 | 15.4 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 8.5 | 8.2 | 8.6 | 7.3 |
| Visc @ 100°C | cSt | ASTM D445 | 14.4 | 13.9 | 13.8 | 14.3 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LW0008262 **Received** : 12 Jan 2024
Lab Number : 06058985 **Diagnosed** : 12 Jan 2024
Unique Number : 10830367 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

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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