



OIL ANALYSIS REPORT

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

Area
GUAY SON [CONHER]
Machine Id
IBACO ARCENIO VICENTE AUX-1
Component
Diesel Engine
Fluid
XTRA REV 15W40 (8 LTR)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | KL0013486 | KL0012848 | KL0010227 |
| Sample Date | | Client Info | | 20 Jan 2024 | 20 Sep 2023 | 17 Feb 2023 |
| Machine Age | hrs | Client Info | | 0 | 21796 | 21052 |
| Oil Age | hrs | Client Info | | 100 | 24 | 672 |
| Filter Age | hrs | Client Info | | 100 | 24 | 672 |
| Oil Changed | | Client Info | | Not Changd | Changed | Not Changd |
| Filter Changed | | Client Info | | Not Changd | Changed | Not Changd |
| Sample Status | | | | ABNORMAL | ABNORMAL | ATTENTION |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >100 | 48 | 28 | 83 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | 4 | 2 |
| Nickel | ppm | ASTM D5185m | >4 | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 2 | ▲ 6 | 2 |
| Lead | ppm | ASTM D5185m | >40 | 0 | 4 | <1 |
| Copper | ppm | ASTM D5185m | >330 | 2 | 14 | 6 |
| Tin | ppm | ASTM D5185m | >15 | 0 | 2 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

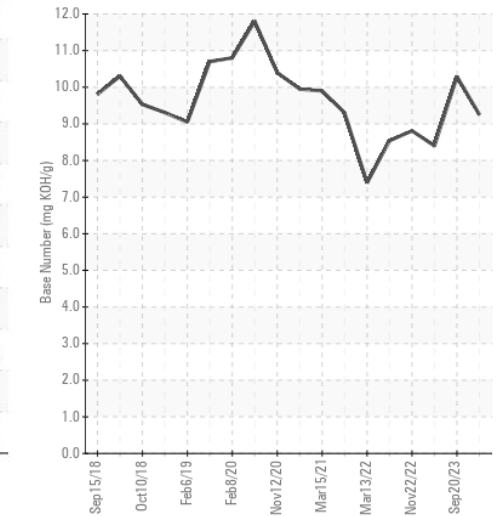
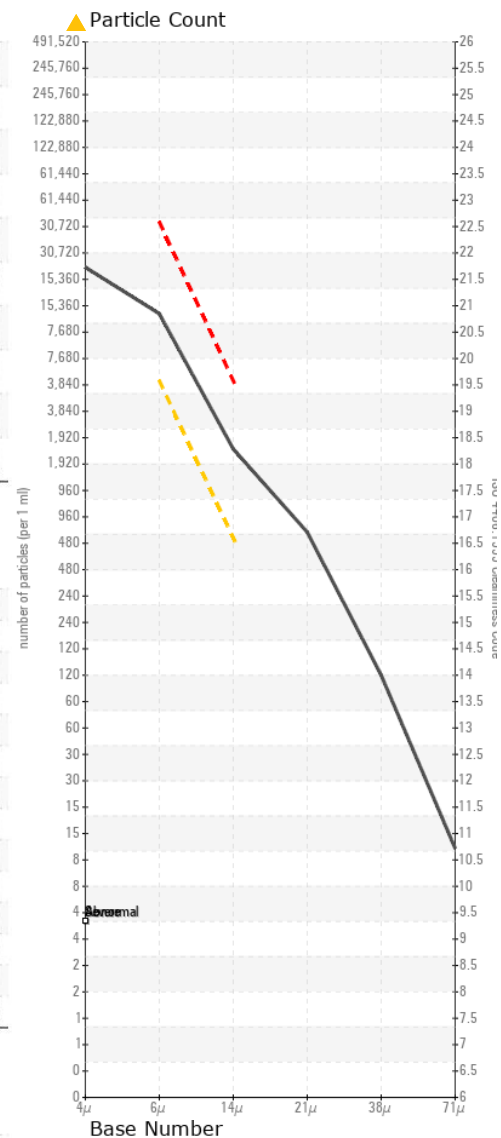
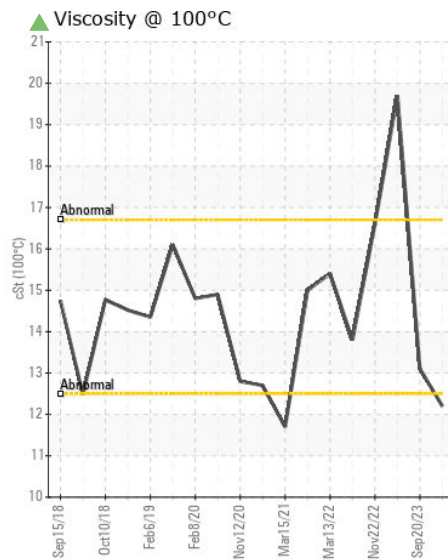
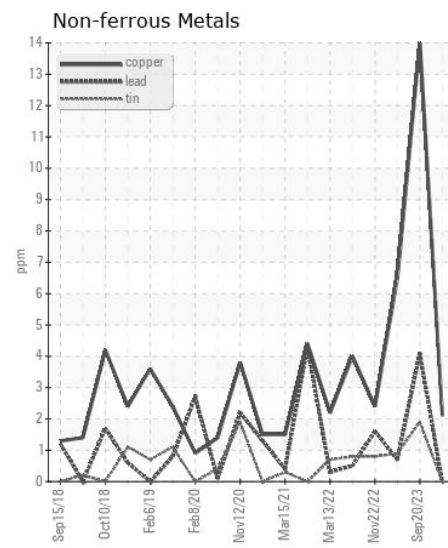
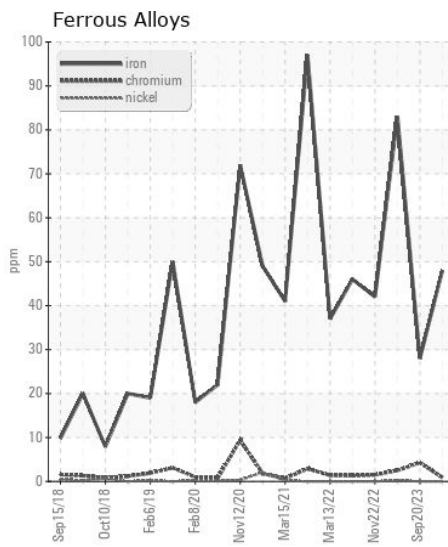
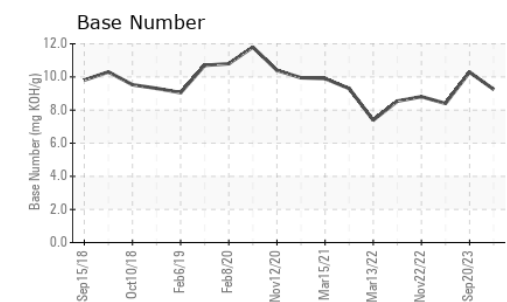
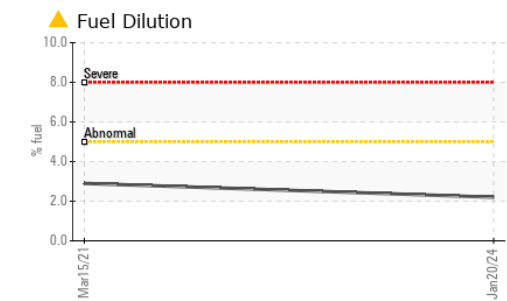
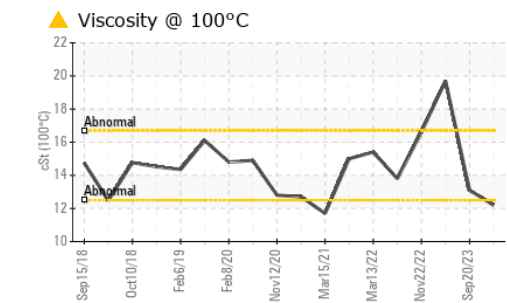
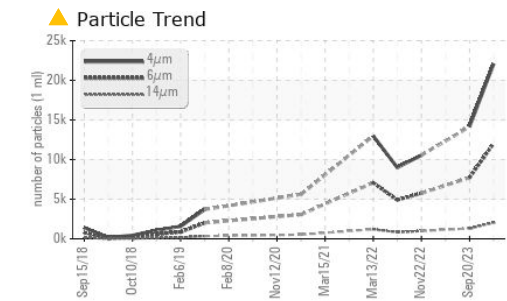
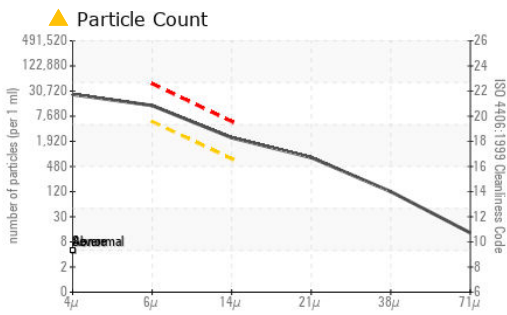
There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil.

| | | | | | | |
|------------------|----------|--------------|--------|----------------|---------|-------|
| Silicon | ppm | ASTM D5185m | >25 | 11 | ▲ 70 | 7 |
| Potassium | ppm | ASTM D5185m | >20 | 4 | 2 | 0 |
| Fuel | % | ASTM D3524 | >5 | ▲ 2.2 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 0.4 | 0.1 | 0.3 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 7.1 | 6.3 | 9.6 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 17.1 | 16.3 | 18.7 |
| Particles >4µm | | ASTM D7647 | | 22071 | 14154 | --- |
| Particles >6µm | | ASTM D7647 | >5000 | ▲ 12023 | ▲ 7711 | --- |
| Particles >14µm | | ASTM D7647 | >640 | ▲ 2046 | ▲ 1312 | --- |
| Particles >21µm | | ASTM D7647 | >160 | ▲ 689 | ▲ 442 | --- |
| Particles >38µm | | ASTM D7647 | >40 | ▲ 106 | ▲ 68 | --- |
| Particles >71µm | | ASTM D7647 | >10 | ▲ 11 | 7 | --- |
| Oil Cleanliness | | ISO 4406 (c) | >19/16 | ▲ 21/18 | ▲ 20/18 | --- |
| 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 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 | | 7 | 4 | 3 |
| Boron | ppm | ASTM D5185m | | 97 | 125 | <1 |
| Barium | ppm | ASTM D5185m | | 1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 18 | 40 | 2 |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | 1 |
| Magnesium | ppm | ASTM D5185m | | 89 | 181 | 12 |
| Calcium | ppm | ASTM D5185m | | 2277 | 2399 | 2791 |
| Phosphorus | ppm | ASTM D5185m | | 1021 | 1095 | 681 |
| Zinc | ppm | ASTM D5185m | | 1261 | 1379 | 662 |
| Sulfur | ppm | ASTM D5185m | | 3213 | 3536 | 4273 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 11.3 | 10.7 | 15.7 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 9.25 | 10.29 | 8.4 |
| Visc @ 100°C | cSt | ASTM D445 | | ▲ 12.2 | 13.1 | ▲ 19.7 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013486
Lab Number : 06074986
Unique Number : 10857077
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel, PrtCount)

Received : 30 Jan 2024
Tested : 05 Feb 2024
Diagnosed : 05 Feb 2024 - Jonathan Hester

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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