



Machine Id
KENWORTH T880 427183 (S/N 1NKZL40X6HJ164232)

Component
1 Differential

Fluid
GEAR OIL SAE 75W90 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: 1sr Axle / Pusher)

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | GFL0123586 | GFL0089377 | --- |
| Sample Date | | Client Info | | 03 Jul 2024 | 09 Aug 2023 | --- |
| Machine Age | hrs | Client Info | | 328651 | 298070 | --- |
| Oil Age | hrs | Client Info | | 328651 | 298070 | --- |
| Filter Age | hrs | Client Info | | 328651 | 0 | --- |
| Oil Changed | | Client Info | | Not Changed | Changed | --- |
| Filter Changed | | Client Info | | Not Changed | N/A | --- |
| Sample Status | | | | ABNORMAL | ABNORMAL | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|-------|-----|
| Iron | ppm | ASTM D5185m | >500 | 498 | ▲ 600 | --- |
| Chromium | ppm | ASTM D5185m | >10 | 4 | 4 | --- |
| Nickel | ppm | ASTM D5185m | >10 | 5 | 14 | --- |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | --- |
| Silver | ppm | ASTM D5185m | | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >25 | 18 | ● 44 | --- |
| Lead | ppm | ASTM D5185m | >25 | <1 | 4 | --- |
| Copper | ppm | ASTM D5185m | >100 | 6 | 28 | --- |
| Tin | ppm | ASTM D5185m | >10 | 7 | 23 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

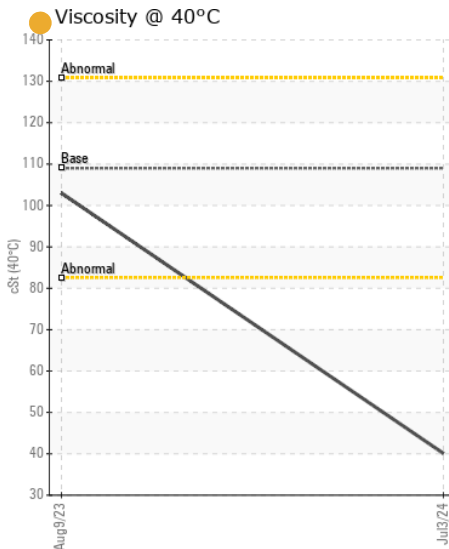
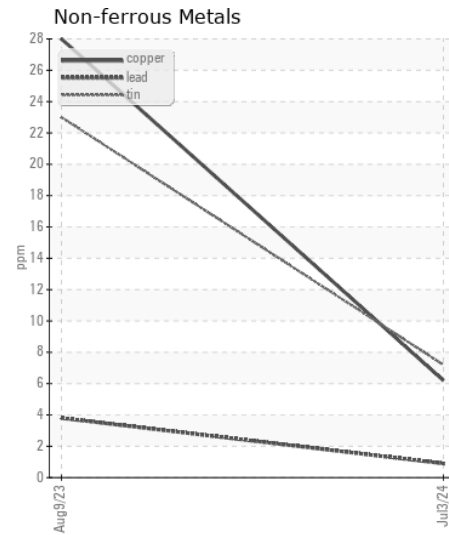
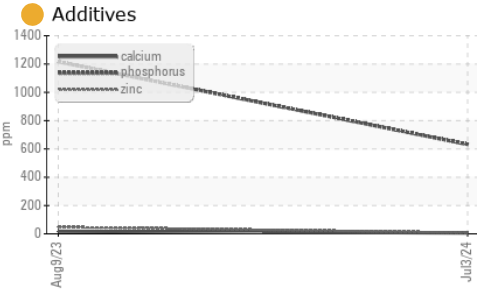
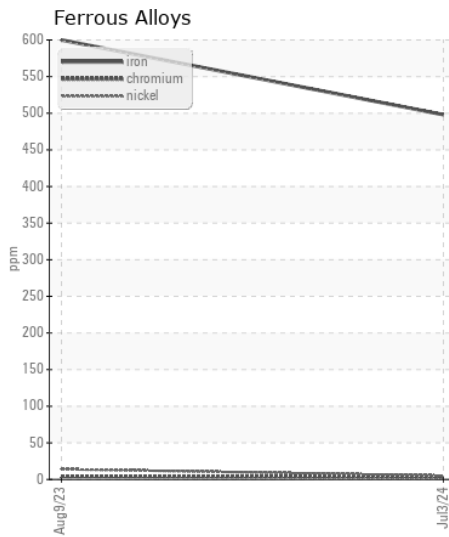
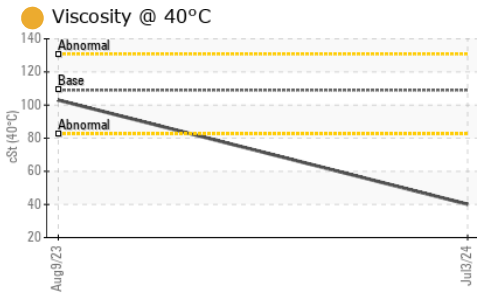
Moderate concentration of visible dirt/debris present in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|----------------|-------|-----|
| Silicon | ppm | ASTM D5185m | >75 | 68 | ▲ 116 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 6 | --- |
| Water | | WC Method | >.2 | NEG | NEG | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | ▲ MODER | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >.2 | NEG | NEG | --- |

FLUID CONDITION

The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

| | | | | | | |
|-------------|-----|-------------|-------|---------------|-------|-----|
| Sodium | ppm | ASTM D5185m | | 2 | 4 | --- |
| Boron | ppm | ASTM D5185m | 400 | 26 | 192 | --- |
| Barium | ppm | ASTM D5185m | 200 | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | 12 | <1 | <1 | --- |
| Manganese | ppm | ASTM D5185m | | 6 | 10 | --- |
| Magnesium | ppm | ASTM D5185m | 12 | 2 | 0 | --- |
| Calcium | ppm | ASTM D5185m | 150 | 6 | 18 | --- |
| Phosphorus | ppm | ASTM D5185m | 1650 | ● 632 | 1216 | --- |
| Zinc | ppm | ASTM D5185m | 125 | 8 | 48 | --- |
| Sulfur | ppm | ASTM D5185m | 22500 | 18456 | 25056 | --- |
| Visc @ 40°C | cSt | ASTM D445 | 109 | ● 40.1 | 103 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0123586
Lab Number : 06231797
Unique Number : 11115290
Test Package : FLEET

Received : 09 Jul 2024
Tested : 10 Jul 2024
Diagnosed : 11 Jul 2024 - Jonathan Hester

GFL Environmental - 983 - Sugar Land Hauling
 16011 West Belfort Street
 Sugar Land, TX
 US 77498
 Contact: TECHNICIAN ACCOUNT
 wcgfldemo@gmail.com

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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F: