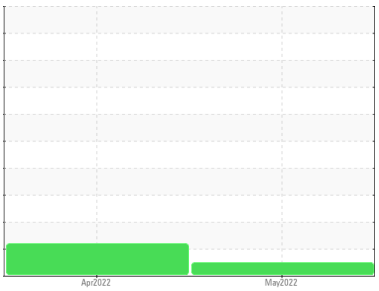
# OIL ANALYSIS REPORT

Sample Rating Trend




NORMAL

Area
## GUAY SON [CONHER]
Machine Id
## Base Line Transmision IBACO
Component
**New (Unused) Oil**
Fluid
**Raloy SAE 50 (--- GAL)**

## DIAGNOSIS

**Recommendation**
This is a baseline read-out on the submitted sample. ( Customer Sample Comment: With 3% of power-up NNL-690-G )

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **KL0010173** | KL0009283 | --- |
| Sample Date | | Client Info | | **17 May 2022** | 11 Apr 2022 | --- |
| Machine Age | hrs | Client Info | | **0** | 0 | --- |
| Oil Age | hrs | Client Info | | **0** | 0 | --- |
| Oil Changed | | Client Info | | **N/A** | N/A | --- |
| Sample Status | | | | **NORMAL** | ABNORMAL | --- |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | | **<1** | <1 | --- |
| Chromium | ppm | ASTM D5185m | | **<1** | <1 | --- |
| Nickel | ppm | ASTM D5185m | | **0** | <1 | --- |
| Titanium | ppm | ASTM D5185m | | **0** | <1 | --- |
| Silver | ppm | ASTM D5185m | | **<1** | 2 | --- |
| Aluminum | ppm | ASTM D5185m | | **<1** | <1 | --- |
| Lead | ppm | ASTM D5185m | | **<1** | 1 | --- |
| Copper | ppm | ASTM D5185m | | **0** | <1 | --- |
| Tin | ppm | ASTM D5185m | | **<1** | <1 | --- |
| Vanadium | ppm | ASTM D5185m | | **0** | <1 | --- |
| Cadmium | ppm | ASTM D5185m | | **<1** | <1 | --- |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | | **1** | <1 | --- |
| Barium | ppm | ASTM D5185m | | **0** | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | | **<1** | <1 | --- |
| Manganese | ppm | ASTM D5185m | | **<1** | <1 | --- |
| Magnesium | ppm | ASTM D5185m | | **11** | 13 | --- |
| Calcium | ppm | ASTM D5185m | | **3189** | 3448 | --- |
| Phosphorus | ppm | ASTM D5185m | | **897** | 975 | --- |
| Zinc | ppm | ASTM D5185m | | **744** | 819 | --- |
| Sulfur | ppm | ASTM D5185m | | **8591** | 4465 | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | | **12** | 11 | --- |
| Sodium | ppm | ASTM D5185m | | **0** | <1 | --- |
| Potassium | ppm | ASTM D5185m | >20 | **0** | <1 | --- |

| INFRA-RED | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Soot % | % | *ASTM D7844 | | **0.1** | --- | --- |
| Nitration | Abs/cm | *ASTM D7624 | | **4.1** | --- | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | | **14.1** | --- | --- |

| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Particles >4µm | | ASTM D7647 | | **---** | 41333 | --- |
| Particles >6µm | | ASTM D7647 | >1300 | **---** | ▲ 16755 | --- |
| Particles >14µm | | ASTM D7647 | >160 | **---** | ▲ 2514 | --- |
| Particles >21µm | | ASTM D7647 | >40 | **---** | ▲ 550 | --- |
| Particles >38µm | | ASTM D7647 | >10 | **---** | 10 | --- |
| Particles >71µm | | ASTM D7647 | >3 | **---** | 0 | --- |
| Oil Cleanliness | | ISO 4406 (c) | >17/14 | **---** | ▲ 21/19 | --- |

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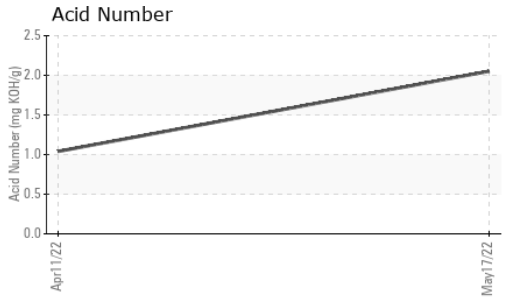
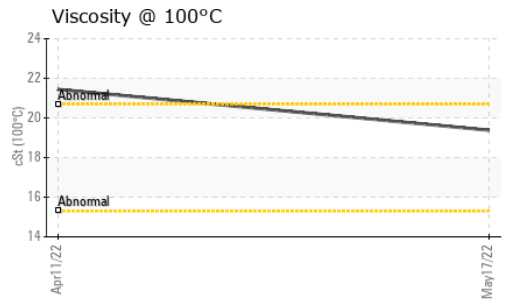
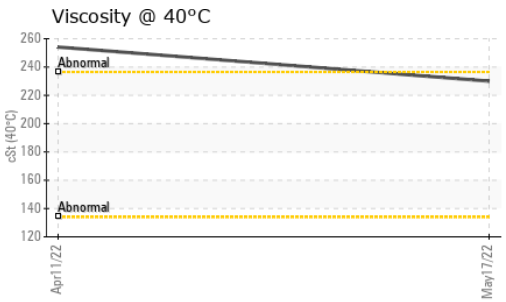
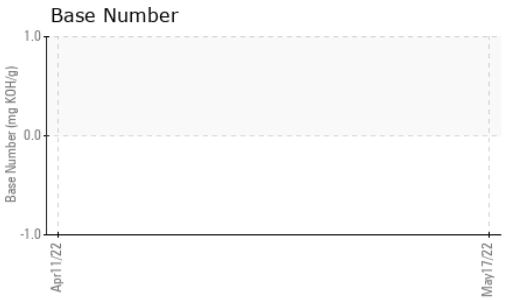


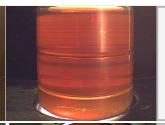
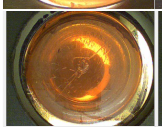
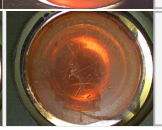




| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Oxidation | Abs/.1mm | *ASTM D7414 | | **4.6** | --- | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | **2.052** | 1.04 | --- |

| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Precipitate | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Silt | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Debris | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Appearance | scalar | *Visual | NORML | **NORML** | NORML | --- |
| Odor | scalar | *Visual | NORML | **NORML** | NORML | --- |
| Emulsified Water | scalar | *Visual | | **NEG** | NEG | --- |
| Free Water | scalar | *Visual | | **NEG** | NEG | --- |

| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | | **230** | 254.1 | --- |
| Visc @ 100°C | cSt | ASTM D445 | | **19.38** | 21.44 | --- |
| Viscosity Index (VI) | Scale | ASTM D2270 | | **95** | 100 | --- |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | |  |  | *no image* |
| Bottom | | |  |  | *no image* |

Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : KL0010173 **Received** : 20 May 2022
**Lab Number** : 05550674 **Diagnosed** : 25 May 2022
**Unique Number** : 9985041 **Diagnostician** : Jonathan Hester
**Test Package** : FLEET ( Additional Tests: FT-IR, ICP-NewOil, KF, KV100, PrtCount, TBN, Vi)

*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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