CONST

LESLIE EQUIPMENT CO.

# OIL ANALYSIS REPORT

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

Area
## Store 3 - Norton
Machine Id
## JOHN DEERE 750K D14 (S/N 1T0750KXCJF329221)
Component
## Diesel Engine
Fluid
## CHEVRON DELO 400 MULTIGRADE 15W40 (7 GAL)

## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

## WEAR

Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

## CONTAMINATION

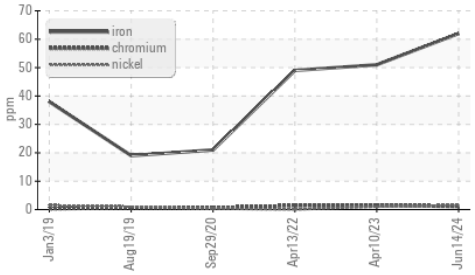
There is no indication of any contamination in the oil.

## FLUID CONDITION

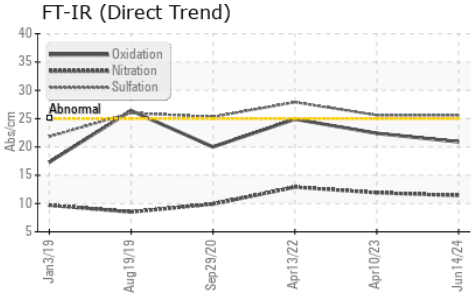
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | LEC0049300 | LEC0040110 | LEC0028596 |
| Sample Date | | Client Info | | 14 Jun 2024 | 10 Apr 2023 | 13 Apr 2022 |
| Machine Age | hrs | Client Info | | 4797 | 3942 | 3050 |
| Oil Age | hrs | Client Info | | 500 | 500 | 500 |
| Filter Age | hrs | Client Info | | 500 | 500 | 500 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | ABNORMAL | NORMAL | NORMAL |
| Iron | ppm | ASTM D5185m | >51 | ▲ 62 | 51 | 49 |
| Chromium | ppm | ASTM D5185m | >11 | 1 | 2 | 1 |
| Nickel | ppm | ASTM D5185m | >5 | 2 | 1 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >31 | 6 | 5 | 7 |
| Lead | ppm | ASTM D5185m | >26 | <1 | 3 | 3 |
| Copper | ppm | ASTM D5185m | >26 | 4 | 4 | 8 |
| Tin | ppm | ASTM D5185m | >4 | 1 | 2 | 2 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >!20 | 10 | 10 | 13 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 3 | 2 |
| Fuel | | WC Method | >2.1 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.21 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 0.8 | 0.8 | 0.8 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 11.4 | 11.9 | 12.9 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 25.6 | 25.6 | 27.9 |
| 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 | >0.21 | NEG | NEG | NEG |
| Sodium | ppm | ASTM D5185m | >31 | 4 | 4 | 2 |
| Boron | ppm | ASTM D5185m | 151 | 44 | 24 | 127 |
| Barium | ppm | ASTM D5185m | 0.4 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 250 | 80 | 85 | 128 |
| Manganese | ppm | ASTM D5185m | | 1 | <1 | 1 |
| Magnesium | ppm | ASTM D5185m | 0 | 469 | 524 | 704 |
| Calcium | ppm | ASTM D5185m | 2046 | 1662 | 1720 | 1696 |
| Phosphorus | ppm | ASTM D5185m | 1043 | 1042 | 934 | 753 |
| Zinc | ppm | ASTM D5185m | 943 | 1272 | 1206 | 979 |
| Sulfur | ppm | ASTM D5185m | 5012 | 3401 | 3159 | 2184 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 20.9 | 22.4 | 24.9 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 12.5 | 6.8 | 6.7 | 7.7 |
| Visc @ 100°C | cSt | ASTM D445 | 14.4 | 14.0 | 13.8 | 13.7 |

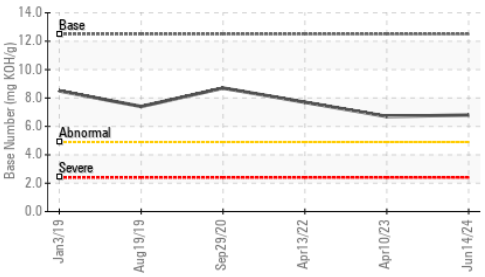
Ferrous Alloys



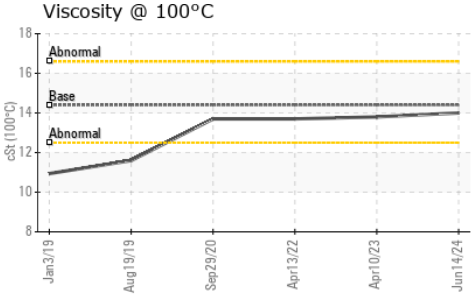

FT-IR (Direct Trend)



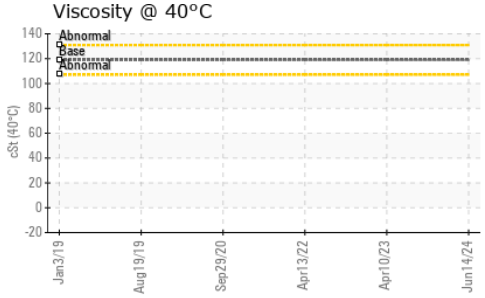

Base Number



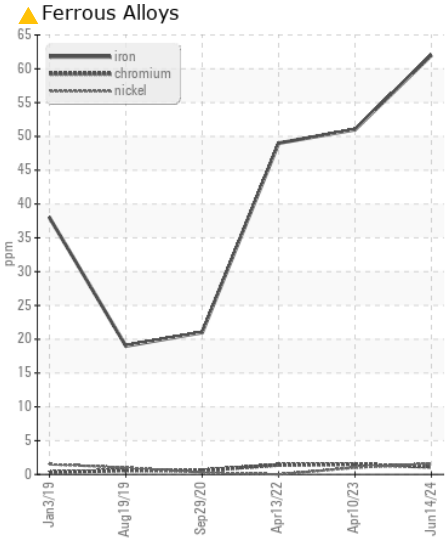

Viscosity @ 100°C



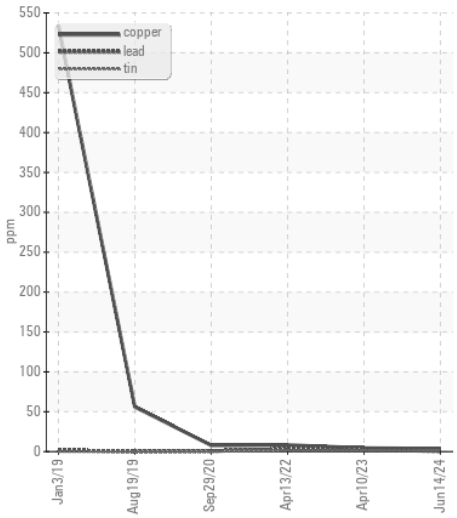

Viscosity @ 40°C



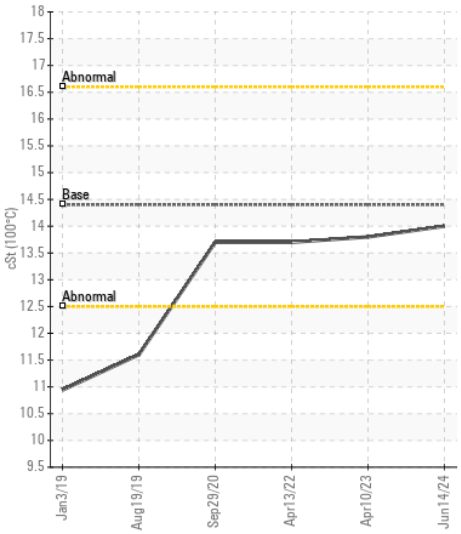

Ferrous Alloys



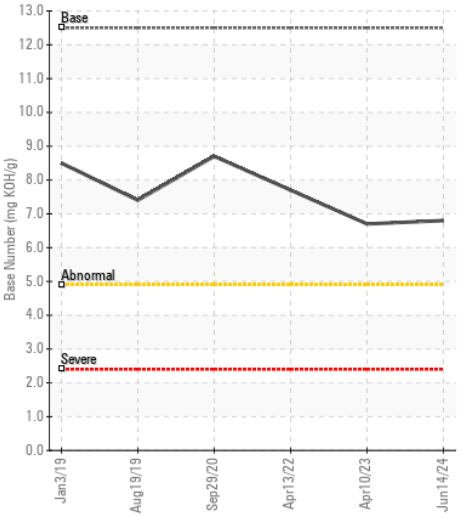

Non-ferrous Metals




Viscosity @ 100°C




Base Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : LEC0049300 **Received** : 03 Jul 2024
**Lab Number** : 06227161 **Tested** : 05 Jul 2024
**Unique Number** : 11110654 **Diagnosed** : 05 Jul 2024 - Don Baldridge
**Test Package** : CONST ( Additional Tests: TBN, KV40 )

*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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