

Machine Id
JOHN DEERE 345G 20-86 (S/N 1FF345GXHKF020532)

Component
Diesel Engine

Fluid
PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | PCA0056862 | PCA0035915 | --- |
| Sample Date | | Client Info | | 22 Nov 2022 | 02 Sep 2021 | --- |
| Machine Age | hrs | Client Info | | 2044 | 597 | --- |
| Oil Age | hrs | Client Info | | 651 | 597 | --- |
| Filter Age | hrs | Client Info | | 651 | 597 | --- |
| Oil Changed | | Client Info | | Changed | Changed | --- |
| Filter Changed | | Client Info | | Changed | Changed | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|-----|
| Iron | ppm | ASTM D5185m | >51 | 10 | 18 | --- |
| Chromium | ppm | ASTM D5185m | >11 | <1 | <1 | --- |
| Nickel | ppm | ASTM D5185m | >5 | <1 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | --- |
| Silver | ppm | ASTM D5185m | >3 | 0 | 2 | --- |
| Aluminum | ppm | ASTM D5185m | >31 | 7 | 4 | --- |
| Lead | ppm | ASTM D5185m | >26 | 2 | 1 | --- |
| Copper | ppm | ASTM D5185m | >26 | 2 | 6 | --- |
| Tin | ppm | ASTM D5185m | >4 | 2 | 3 | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

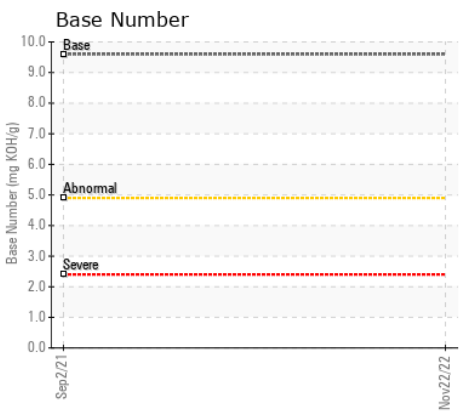
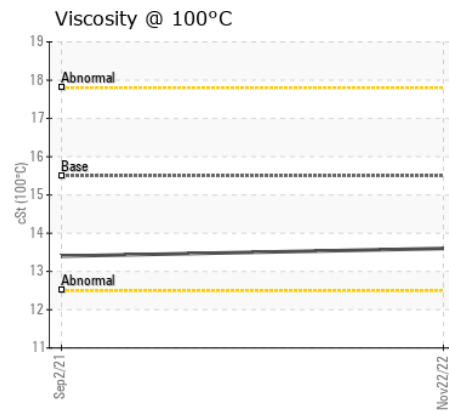
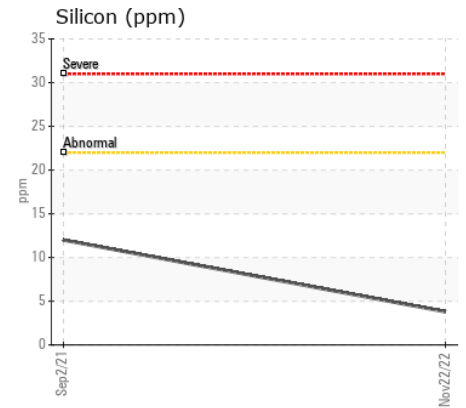
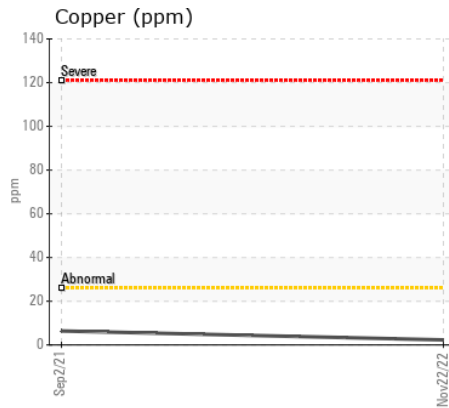
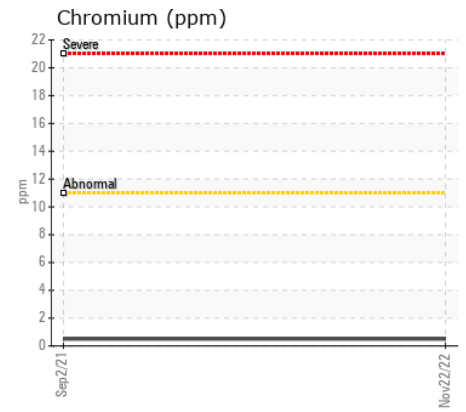
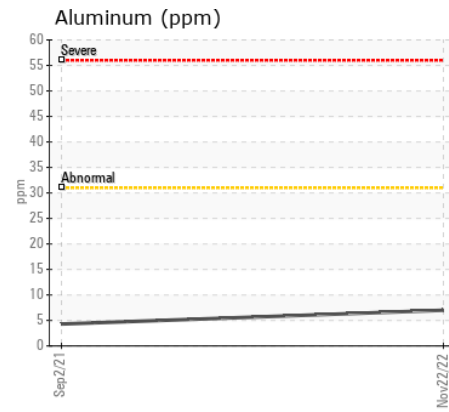
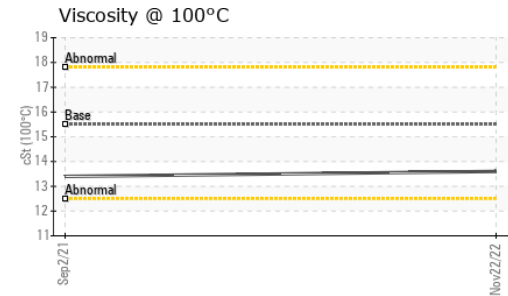
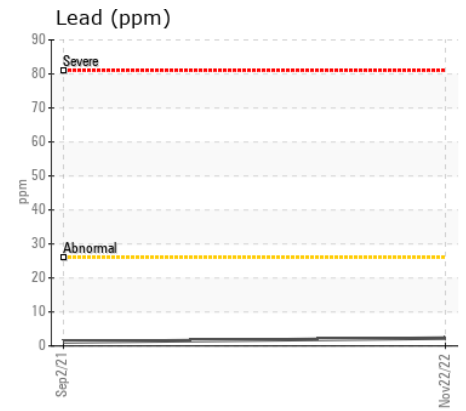
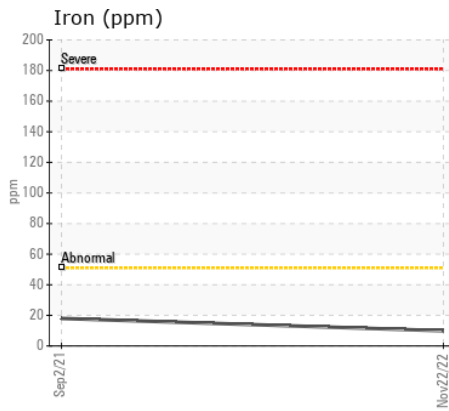
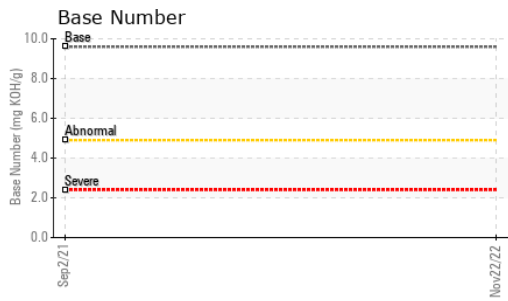
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-----|
| Silicon | ppm | ASTM D5185m | >22 | 4 | 12 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 3 | --- |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | --- |
| Water | | WC Method | >0.21 | NEG | NEG | --- |
| Glycol | | WC Method | | NEG | NEG | --- |
| Soot % | % | *ASTM D7844 | >3 | 0.4 | 0.2 | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 7.3 | 7.6 | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 18.0 | 16.3 | --- |
| 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 | >0.21 | 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 | >31 | 1 | 2 | --- |
| Boron | ppm | ASTM D5185m | 1 | 3 | 189 | --- |
| Barium | ppm | ASTM D5185m | 1 | 4 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | 60 | 48 | 4 | --- |
| Manganese | ppm | ASTM D5185m | 1 | <1 | 3 | --- |
| Magnesium | ppm | ASTM D5185m | 1010 | 741 | 49 | --- |
| Calcium | ppm | ASTM D5185m | 1070 | 1218 | 2153 | --- |
| Phosphorus | ppm | ASTM D5185m | 1150 | 915 | 1005 | --- |
| Zinc | ppm | ASTM D5185m | 1270 | 1163 | 1200 | --- |
| Sulfur | ppm | ASTM D5185m | 2060 | 3275 | 2713 | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 13.1 | 9.6 | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.6 | 9.0 | --- | --- |
| Visc @ 100°C | cSt | ASTM D445 | 15.5 | 13.6 | 13.4 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0056862 **Received** : 24 Jan 2023
Lab Number : 05747716 **Diagnosed** : 25 Jan 2023
Unique Number : 10307320 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

JOHNSON DAVIS CONTRACTORS
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 LANTANA, FL
 US 33462
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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)