



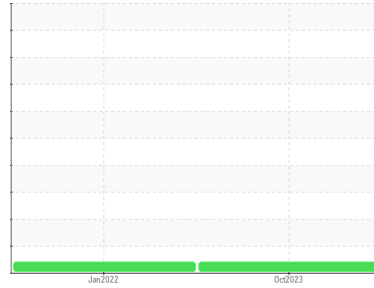
PROBLEM SUMMARY

Sample Rating Trend

VISCOSITY

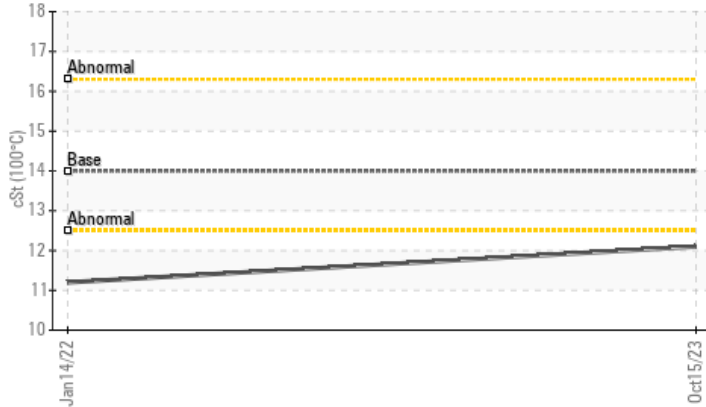


Area
KANSAS/44
 Machine Id
53.161L [KANSAS^44]
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER15W40 (4 GAL)



COMPONENT CONDITION SUMMARY

▲ Viscosity @ 100°C



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

| Sample Status | | | | ATTENTION | ATTENTION | --- |
|---------------|-----|-----------|----|-----------|-----------|-----|
| Visc @ 100°C | cSt | ASTM D445 | 14 | ▲ 12.1 | ▲ 11.2 | --- |

Customer Id: SHEWIC
 Sample No.: WC0862553
 Lab Number: 05994063
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

14 Jan 2022 Diag: Don Baldrige

VISCOSITY



Resample at the next service interval to monitor. All component wear rates are normal. Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

view report





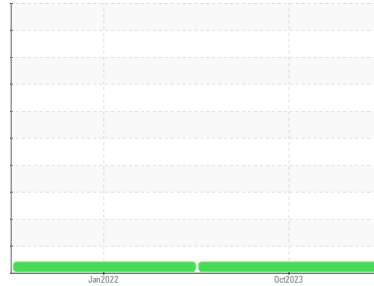
OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



Area
KANSAS/44
Machine Id
53.161L [KANSAS^44]
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (4 GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|----------|
| Sample Number | Client Info | | WC0862553 | WC0630426 | --- |
| Sample Date | Client Info | | 15 Oct 2023 | 14 Jan 2022 | --- |
| Machine Age | hrs | Client Info | 1056 | 4 | --- |
| Oil Age | hrs | Client Info | 1056 | 0 | --- |
| Oil Changed | Client Info | | N/A | Not Changd | --- |
| Sample Status | | | ATTENTION | ATTENTION | --- |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|--------|-----------|------------|------------|----------|----------|
| Glycol | WC Method | | NEG | NEG | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >100 | 16 | 6 | --- |
| Chromium | ppm | ASTM D5185m >20 | <1 | <1 | --- |
| Nickel | ppm | ASTM D5185m >2 | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185m >2 | 0 | <1 | --- |
| Silver | ppm | ASTM D5185m >2 | 0 | <1 | --- |
| Aluminum | ppm | ASTM D5185m >25 | 2 | <1 | --- |
| Lead | ppm | ASTM D5185m >40 | 0 | 0 | --- |
| Copper | ppm | ASTM D5185m >330 | 2 | 7 | --- |
| Tin | ppm | ASTM D5185m >15 | 0 | <1 | --- |
| Antimony | ppm | ASTM D5185m | --- | 0 | --- |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | --- |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|---------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m 0 | 36 | 58 | --- |
| Barium | ppm | ASTM D5185m 0 | 0 | 2 | --- |
| Molybdenum | ppm | ASTM D5185m 0 | 41 | 32 | --- |
| Manganese | ppm | ASTM D5185m | <1 | 2 | --- |
| Magnesium | ppm | ASTM D5185m 0 | 517 | 386 | --- |
| Calcium | ppm | ASTM D5185m | 1746 | 1668 | --- |
| Phosphorus | ppm | ASTM D5185m | 848 | 783 | --- |
| Zinc | ppm | ASTM D5185m | 949 | 867 | --- |
| Sulfur | ppm | ASTM D5185m | 2346 | 2838 | --- |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|----------------|----------|----------|
| Silicon | ppm | ASTM D5185m >25 | 6 | 15 | --- |
| Sodium | ppm | ASTM D5185m | 5 | <1 | --- |
| Potassium | ppm | ASTM D5185m >20 | 1 | <1 | --- |
| Fuel | % | ASTM D3524 >5 | <1.0 | 0.0 | --- |

INFRA-RED

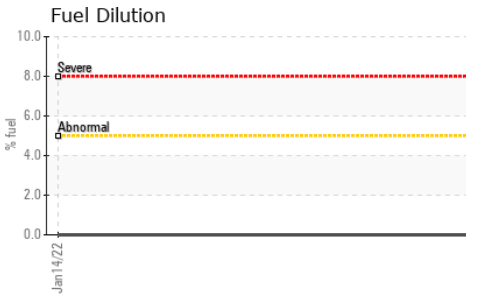
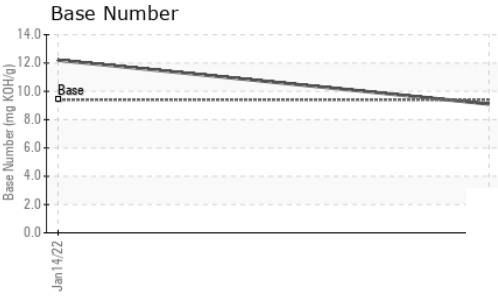
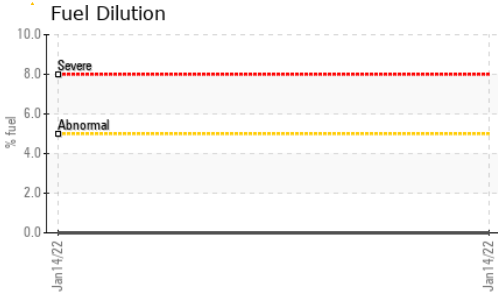
| | method | limit/base | current | history1 | history2 |
|-----------|----------|-----------------|-------------|----------|----------|
| Soot % | % | *ASTM D7844 >3 | 0.2 | 0 | --- |
| Nitration | Abs/cm | *ASTM D7624 >20 | 9.8 | 5 | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 >30 | 22.7 | 22.3 | --- |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|-----------------|-------------|----------|----------|
| Oxidation | Abs/.1mm | *ASTM D7414 >25 | 23.3 | 18.8 | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 9.4 | 9.1 | 12.2 | --- |



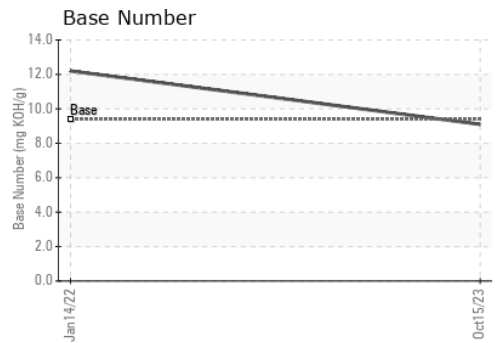
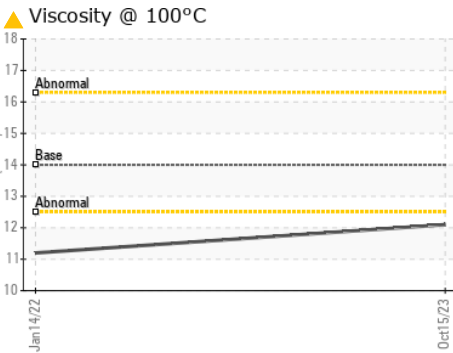
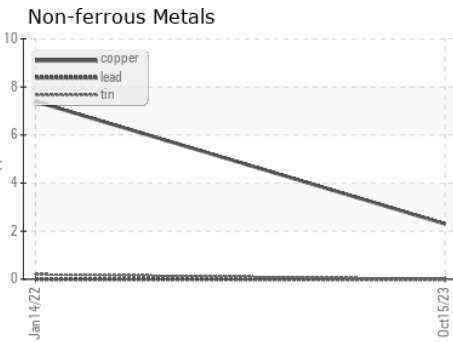
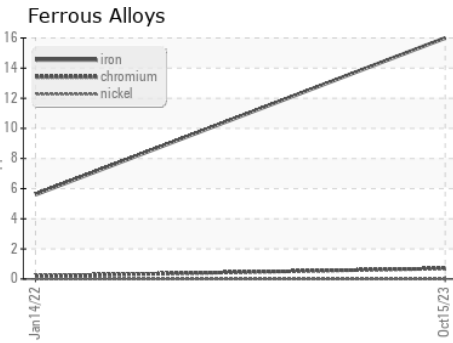
OIL ANALYSIS REPORT



| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | --- |
| Silt | scalar | *Visual | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | --- |
| Free Water | scalar | *Visual | | NEG | --- |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|--------------|---------|----------|----------|
| Visc @ 100°C | cSt | ASTM D445 14 | ▲ 12.1 | ▲ 11.2 | --- |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0862553 **Received** : 31 Oct 2023
Lab Number : 05994063 **Diagnosed** : 01 Nov 2023
Unique Number : 10722423 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: FuelDilution, TBN)

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 US 67213
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 randy.roberts@sherwood.net
 T: (316)943-6491
 F: x:

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)