

OIL ANALYSIS REPORT

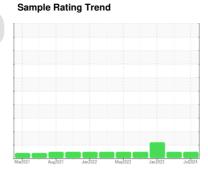


Area KANSAS/44 Machine Id 20.021L [KANSAS^44]

Component

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (2 GAL)





Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

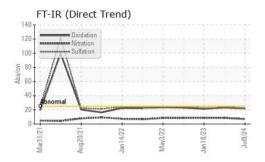
Fluid Condition

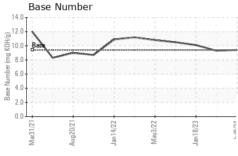
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

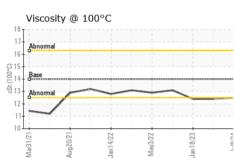
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
|-------------------------|----------|--------------|------------|-------------|-------------|--------------|
| Sample Number | | Client Info | | WC0918313 | WC0779764 | WC0741836 |
| Sample Date | | Client Info | | 09 Jul 2024 | 15 Mar 2024 | 18 Jan 2023 |
| Machine Age | hrs | Client Info | | 3105 | 2874 | 1964 |
| Oil Age | hrs | Client Info | | 0 | 910 | 477 |
| Oil Changed | 1110 | Client Info | | Changed | Changed | Changed |
| Sample Status | | Olioni illio | | NORMAL | NORMAL | MARGINAL |
| CONTAMINATION | V | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | △ 3.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | , , , , | NEG | NEG | NEG |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >100 | 5 | 10 | 14 |
| Chromium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >2 | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | | 1 | 2 | 4 |
| | | | | 0 | <1 | <1 |
| Lead | ppm | ASTM D5185m | >40 | | | |
| Copper | ppm | ASTM D5185m | | <1 | 1 | 2 |
| Tin | ppm | ASTM D5185m | >15 | 0 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | | 0 | 51 | 55 | 40 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | | 0 | 39 | 43 | 41 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 0 | 503 | 525 | 537 |
| Calcium | ppm | ASTM D5185m | | 1779 | 1768 | 1682 |
| Phosphorus | ppm | ASTM D5185m | | 779 | 755 | 745 |
| Zinc | ppm | ASTM D5185m | | 906 | 983 | 942 |
| Sulfur | ppm | ASTM D5185m | | 2858 | 2416 | 2862 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 4 | 6 | 5 |
| Sodium | ppm | ASTM D5185m | | 3 | 1 | 3 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 1 | <1 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >3 | 0.1 | 0.2 | 0.2 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 7.1 | 8.5 | 8.6 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 22.3 | 22.6 | 22.0 |
| | TION | ام مطلم مما | limit/bass | | history | history2 |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | HISTORYZ |
| FLUID DEGRADA Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 21.8 | 23.2 | 21.4 |

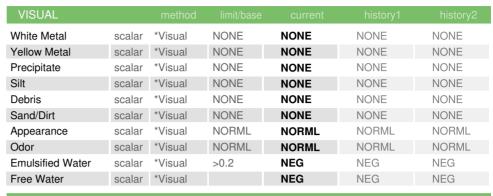


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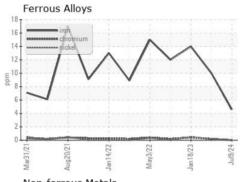


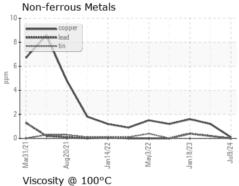


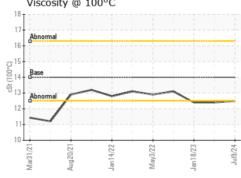


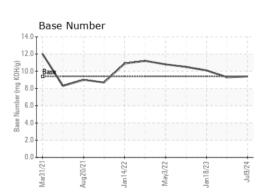
| FLUID FROFER | TILO | memou | | | HISTORY | HISTORYZ |
|--------------|------|-----------|----|------|---------|---------------|
| Visc @ 100°C | cSt | ASTM D445 | 14 | 12.5 | 12.4 | ▲ 12.4 |

GRAPHS













Laboratory Sample No.

: WC0918313 Lab Number : 06235727 Unique Number : 11124561

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

Tested Diagnosed

: 15 Jul 2024 : 16 Jul 2024

: 16 Jul 2024 - Wes Davis

SHERWOOD CONSTRUCTION CO INC 3219 WEST MAY ST WICHITA, KS US 67213 Contact: DOUG KING

Test Package : CONST (Additional Tests: TBN) Certificate 12367 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)

T: F:

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