

OIL ANALYSIS REPORT

Area OKLAHOMA/102/EG - OTHER SERVICE

05.72 [OKLAHOMA^102^EG - OTHER SERVICE]

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

NORMAL



Sample Rating Trend

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Diesel Engine

Fluid

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

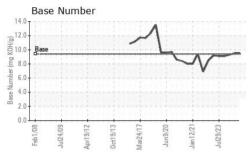
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

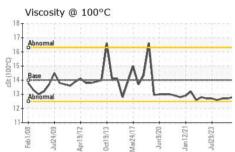
| SAMPLE INFORM | 1ATION | method | limit/base | current | history1 | history2 |
|------------------|----------|-------------|------------|-------------|-------------|-------------|
| Sample Number | | Client Info | | WC0864332 | WC0864274 | WC0819911 |
| Sample Date | | Client Info | | 10 Apr 2024 | 06 Dec 2023 | 20 Oct 2023 |
| Machine Age | mls | Client Info | | 354913 | 30899 | 30525 |
| Oil Age | mls | Client Info | | 88763 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changd | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| CONTAMINATION | J | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | 20.2 | NEG | NEG | NEG |
| | | | | | | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >85 | 6 | 4 | 5 |
| Chromium | ppm | ASTM D5185m | >4 | <1 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >4 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | >2 | 1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >15 | <1 | <1 | <1 |
| Lead | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >250 | <1 | <1 | 0 |
| Tin | ppm | ASTM D5185m | >5 | <1 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 65 | 58 | 51 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 42 | 40 | 40 |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | 0 | 469 | 526 | 516 |
| Calcium | ppm | ASTM D5185m | | 1663 | 1631 | 1579 |
| Phosphorus | ppm | ASTM D5185m | | 764 | 744 | 644 |
| Zinc | ppm | ASTM D5185m | | 835 | 945 | 880 |
| Sulfur | ppm | ASTM D5185m | | 2700 | 2435 | 2377 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 3 | 4 | 4 |
| Sodium | ppm | ASTM D5185m | | 5 | 3 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | 25 | 0 | 0 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >3 | 0.1 | 0.1 | 0.1 |
| Nitration | Abs/cm | *ASTM D7624 | | 7.7 | 7.2 | 7.2 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 22.8 | 22.5 | 22.3 |
| FLUID DEGRADA | | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 22.1 | 21.3 | 20.7 |
| | | | | | | |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.4 | 9.5 | 9.5 | 9.3 |



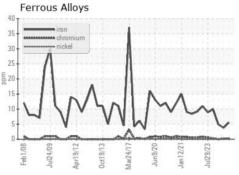
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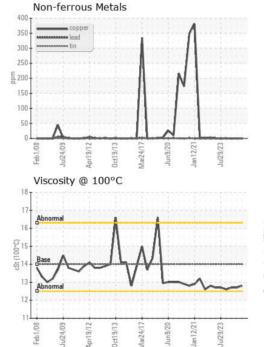


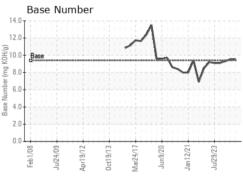




| VISUAL | | method | | | | history2 |
|------------------|--------|-----------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| 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 | >0.2 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |
| FLUID PROPERT | TIES | method | limit/base | current | history1 | history2 |
| Visc @ 100°C | cSt | ASTM D445 | 14 | 12.8 | 12.7 | 12.7 |
| GRAPHS | | | | | | |







Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 SHERWOOD CONSTRUCTION CO INC Sample No. : WC0864332 Received : 16 Apr 2024 3219 WEST MAY ST Lab Number : 06150889 Tested : 17 Apr 2024 WICHITA, KS Unique Number : 10980967 Diagnosed : 17 Apr 2024 - Wes Davis US 67213 Test Package : CONST (Additional Tests: TBN) Contact: DOUG KING Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. doug.king@sherwood.net * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (316)617-3161 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: x:

Report Id: SHEWIC [WUSCAR] 06150889 (Generated: 04/17/2024 22:35:28) Rev: 1

Submitted By: SHAWN SOUTH

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