

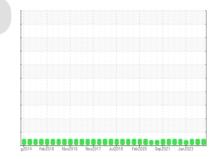
OIL ANALYSIS REPORT



COLORADO/443/EG - MOTOR GRADER
78.250 [COLORADO^443^EG - MOTOR GRADER]

Main Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)



Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Moar

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

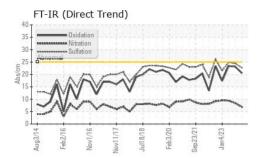
Fluid Condition

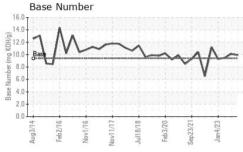
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

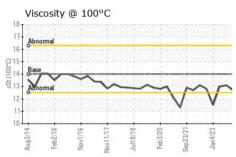
| SAMPLE INFORMATION method limit/base current hist | ory1 history2 |
|--|--|
| Sample Number Client Info WC0928741 WC0859 | 9664 WC0823196 |
| Sample Date Client Info 22 May 2024 28 Sep 3 | 2023 17 Jul 2023 |
| Machine Age hrs Client Info 11715 11104 | 10826 |
| Oil Age hrs Client Info 0 | 0 |
| Oil Changed Client Info Changed Change | d Changed |
| Sample Status NORMAL NORMA | L NORMAL |
| CONTAMINATION method limit/base current hist | ory1 history2 |
| Fuel WC Method >5 <1.0 <1.0 | <1.0 |
| Water WC Method >0.2 NEG NEG | NEG |
| Glycol WC Method NEG NEG | NEG |
| WEAR METALS method limit/base current hist | ory1 history2 |
| Iron ppm ASTM D5185m >100 9 13 | 20 |
| Chromium ppm ASTM D5185m >20 <1 | <1 |
| Nickel ppm ASTM D5185m >2 0 0 | 0 |
| Titanium ppm ASTM D5185m >2 <1 <1 | 0 |
| Silver ppm ASTM D5185m >2 <1 0 | 0 |
| Aluminum ppm ASTM D5185m >25 2 <1 | 2 |
| Lead ppm ASTM D5185m >40 <1 1 | <1 |
| Copper ppm ASTM D5185m >330 0 <1 | 3 |
| Tin ppm ASTM D5185m >15 <1 <1 | <1 |
| Vanadium ppm ASTM D5185m 0 <1 | 0 |
| Cadmium ppm ASTM D5185m 0 <1 | 0 |
| PP | ory1 history2 |
| | |
| Boron ppm ASTM D5185m 0 60 64 | 58 |
| Barium ppm ASTM D5185m 0 0 0 | <1 |
| | |
| Molybdenum ppm ASTM D5185m 0 39 44 | 42 |
| Manganese ppm ASTM D5185m <1 | <1 |
| Manganese ppm ASTM D5185m <1 | <1 591 |
| Manganese ppm ASTM D5185m <1 | <1 591 1873 |
| Manganese ppm ASTM D5185m <1 | <1 591 1873 813 |
| Manganese ppm ASTM D5185m <1 | <1 591 1873 813 987 |
| Manganese ppm ASTM D5185m <1 | <1 591 1873 813 987 3091 |
| Manganese ppm ASTM D5185m <1 | <1 591 1873 813 987 3091 ory1 history2 |
| Manganese ppm ASTM D5185m <1 | <1 591 1873 813 987 3091 ory1 history2 |
| Manganese ppm ASTM D5185m <1 | <1 591 1873 813 987 3091 ory1 history2 3 3 |
| Manganese ppm ASTM D5185m <1 | <1 591 1873 813 987 3091 ory1 history2 |
| Manganese ppm ASTM D5185m <1 | <1 591 1873 813 987 3091 ory1 history2 3 3 |
| Manganese ppm ASTM D5185m <1 | <1 591 1873 813 987 3091 ory1 history2 3 3 <1 |
| Manganese ppm ASTM D5185m <1 | <1 591 1873 813 987 3091 ory1 history2 3 3 <1 ory1 history2 |
| Manganese ppm ASTM D5185m <1 | <1 591 1873 813 987 3091 ory1 history2 3 3 <1 ory1 history2 0.7 |
| Manganese ppm ASTM D5185m <1 | <1 591 1873 813 987 3091 ory1 history2 3 3 <1 ory1 history2 0.7 9.4 |
| Manganese ppm ASTM D5185m <1 | <1 591 1873 813 987 3091 ory1 history2 3 3 <1 ory1 history2 0.7 9.4 24.9 |



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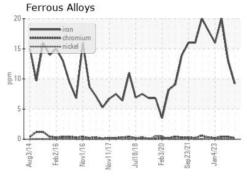


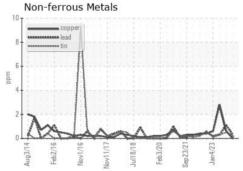


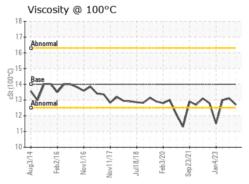
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | 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 |

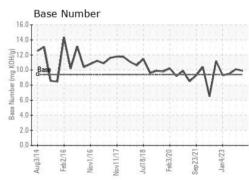
| FLUID PROPER | HES | method | | | history1 | history2 |
|--------------|-----|-----------|----|------|----------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 14 | 12.7 | 13.1 | 13.0 |

GRAPHS













Certificate 12367

Laboratory

Sample No.

: WC0928741 Lab Number : 06196136 Unique Number : 11058259

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

: 30 May 2024 **Tested** : 31 May 2024 Diagnosed : 31 May 2024 - Wes Davis

SHERWOOD CONSTRUCTION CO INC 3219 WEST MAY ST WICHITA, KS US 67213

Test Package : CONST (Additional Tests: TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: JIMMY DERAMUS jimmy.deramus@sherwood.net T: (918)691-3306

* - 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)

F: x: