

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



CONSTRUCTORS, INC

09-0753

Front Diesel Engine

Fluid

MOBIL DELVAC 1300 SUPER 10W30 (--- 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

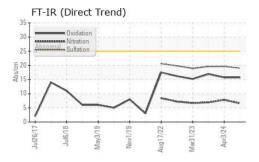
Fluid Condition

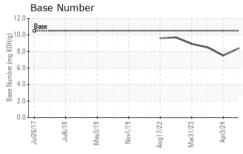
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

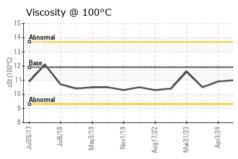
| SAMPLE INFORM | ATION | method | limit/base | current | history1 | history2 |
|-------------------------|----------|-------------|------------|-------------|-------------|-------------|
| Sample Number | | Client Info | | SBP0006789 | SBP0005753 | SBP0000691 |
| Sample Date | | Client Info | | 13 Jun 2024 | 03 Apr 2024 | 28 Jun 2023 |
| Machine Age | hrs | Client Info | | 30650 | 30649 | 30375 |
| Oil Age | hrs | Client Info | | 274 | 274 | 359 |
| Oil Changed | 1110 | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| CONTAMINATION | | method | limit/base | current | history1 | history2 |
| Fuel | 1 | WC Method | >5 | | <1.0 | <1.0 |
| Water | | | | <1.0 NEG | NEG | NEG |
| | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >100 | 4 | 5 | 4 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | 2 | <1 |
| Nickel | ppm | ASTM D5185m | >4 | <1 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 2 | 2 | <1 |
| Lead | ppm | ASTM D5185m | >40 | 6 | 4 | 2 |
| Copper | ppm | ASTM D5185m | >330 | 1 | 2 | 2 |
| Tin | ppm | ASTM D5185m | >15 | <1 | 2 | 1 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Cadmium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 2 | 0 | 3 |
| Barium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 60 | 56 | 55 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | | 1054 | 931 | 943 |
| Calcium | ppm | ASTM D5185m | | 1216 | 1063 | 1116 |
| Phosphorus | ppm | ASTM D5185m | | 1104 | 1022 | 959 |
| Zinc | ppm | ASTM D5185m | | 1403 | 1187 | 1213 |
| Sulfur | ppm | ASTM D5185m | | 3939 | 3198 | 3435 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 3 | 6 | 9 |
| Sodium | ppm | ASTM D5185m | | 2 | 8 | 3 |
| Potassium | ppm | ASTM D5185m | >20 | 4 | 8 | <1 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >3 | 0.1 | 0.1 | 0.1 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 6.6 | 7.8 | 6.9 |
| | | | >30 | 19.0 | 19.6 | 19.6 |
| Sulfation | Abs/.1mm | *ASTM D7415 | 700 | 19.0 | | |
| Sulfation FLUID DEGRADA | | method | limit/base | current | history1 | history2 |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| | | | | | | |

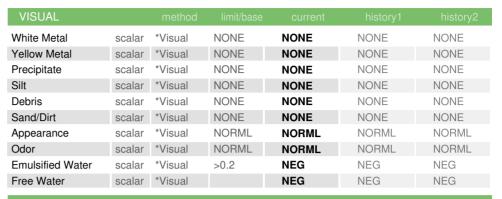


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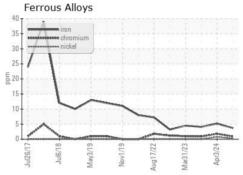


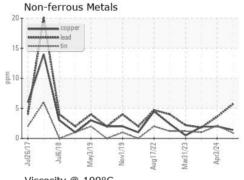


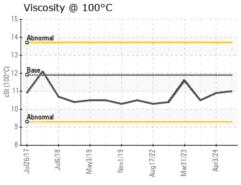


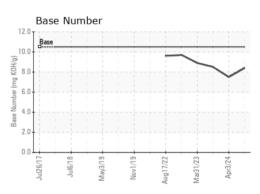
| FLUID PROPERTIES | | method | | | | history2 |
|------------------|-----|-----------|------|------|------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 11.9 | 11.0 | 10.9 | 10.5 |

GRAPHS













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06219016 Unique Number : 11097213

: SBP0006789 Test Package : FLEET

Received : 24 Jun 2024 **Tested** Diagnosed

: 25 Jun 2024 : 26 Jun 2024 - Don Baldridge 1815 Y Street Lincoln, NE

US 68508 Contact: Loren Michael LorenM@constructorslincoln.com

Constructors Inc. - 603659

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: (402)434-2157

Report Id: CONLINNE [WUSCAR] 06219016 (Generated: 06/29/2024 19:42:35) Rev: 1