



OIL ANALYSIS REPORT

| | |
|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Machine Id
MAIN ENGINE #2
Component
2 Main Engine
Fluid
MOBIL DELVAC 1640 (1500 LTR)

RECOMMENDATION

Resample at the next service interval to monitor. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MAR 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid. this testkit includes BN to determine the suitability of the oil for continued use.

WEAR

Component wear rates appear to be normal (unconfirmed).

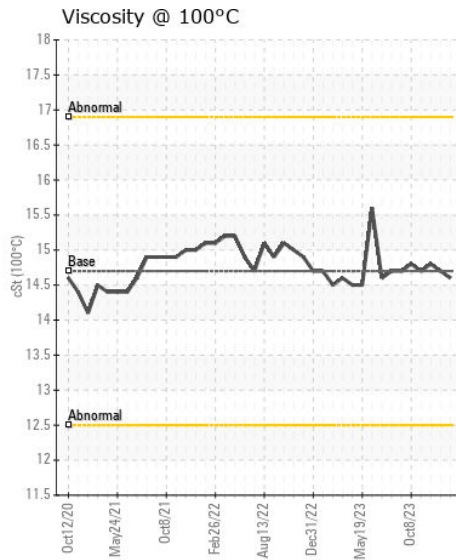
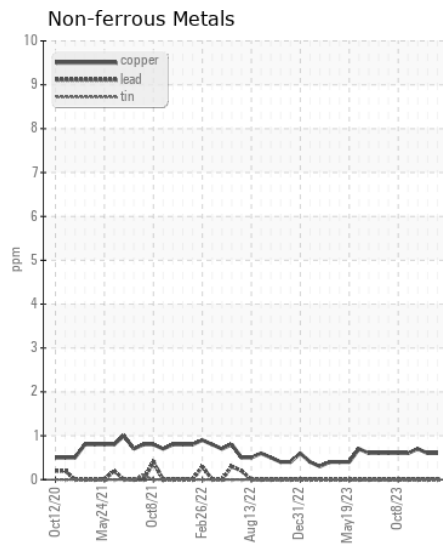
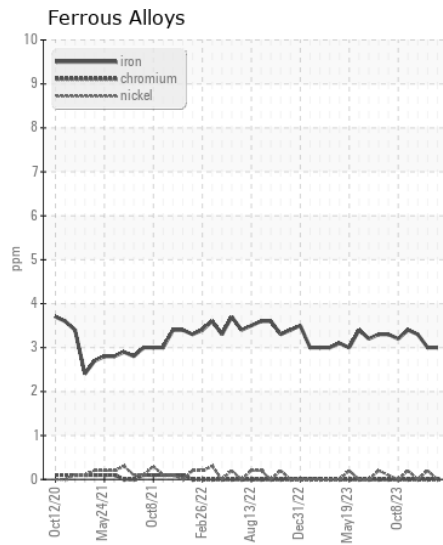
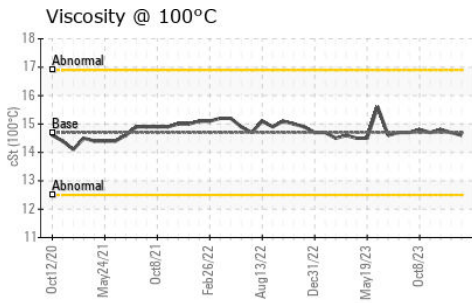
CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

The condition of the oil is acceptable for the time in service (unconfirmed).

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|----------|---------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0803033 | WC0803021 | WC0803081 |
| Sample Date | | Client Info | | 23 Mar 2024 | 25 Feb 2024 | 04 Feb 2024 |
| Machine Age | hrs | Client Info | | 36230 | 35908 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | Not Changd | N/A |
| Filter Changed | | Client Info | | N/A | Not Changd | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| Iron | ppm | ASTM D5185(m) | >120 | 3 | 3 | 3 |
| Chromium | ppm | ASTM D5185(m) | >10 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >5 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >5 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >20 | <1 | <1 | 1 |
| Lead | ppm | ASTM D5185(m) | >40 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185(m) | >300 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) | >10 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| White Metal | scalar | Visual* | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE | NONE |
| Silicon | ppm | ASTM D5185(m) | >25 | 2 | 3 | 3 |
| Potassium | ppm | ASTM D5185(m) | >20 | 0 | <1 | <1 |
| Fuel | | WC Method | >4.0 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | ASTM D7844* | | 0.1 | 0.1 | 0.1 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 7.4 | 7.8 | 7.9 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 16.5 | 17.1 | 17.2 |
| 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* | >0.1 | NEG | NEG | NEG |
| Sodium | ppm | ASTM D5185(m) | | 1 | 1 | 2 |
| Boron | ppm | ASTM D5185(m) | | 1 | <1 | 1 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | | 0 | <1 | <1 |
| Manganese | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | | 222 | 216 | 218 |
| Calcium | ppm | ASTM D5185(m) | | 3761 | 3645 | 3661 |
| Phosphorus | ppm | ASTM D5185(m) | | 873 | 893 | 886 |
| Zinc | ppm | ASTM D5185(m) | | 999 | 973 | 993 |
| Sulfur | ppm | ASTM D5185(m) | | 8355 | 8632 | 8724 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 10.3 | 11.1 | 11.0 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 14.7 | 14.6 | 14.7 | 14.8 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0803033
Lab Number : 02625957
Unique Number : 5759089
Test Package : MAR 1
Received : 02 Apr 2024
Tested : 02 Apr 2024
Diagnosed : 02 Apr 2024 - Wes Davis

Siem Offshore Canada LP.
 M/V Avalon Sea, 140 WATER STREET SUITE 1000
 ST. JOHN'S, NL
 CA A1C 6H6
 Contact: Avalon Sea
 ecr@avalonsea.siemoffshore.com

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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F: