



OIL ANALYSIS REPORT

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

Area

360 MARINE LTD

Machine Id

FEED CARRIER MV 360 SUPPLIER

Component

Main Engine

Fluid

CASTROL TECTION EXTRA SAE 15W-40 (600 LTR)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
 Resample at the next service interval to monitor. (Customer Sample
 Comment: Sample taken before installation of G2F. Oil is Castrol CRB
 multi 15W40)

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number | | Client Info | | OF0000556 | --- | --- |
| Sample Date | | Client Info | | 29 Oct 2022 | --- | --- |
| Machine Age | hrs | Client Info | | 19568 | --- | --- |
| Oil Age | hrs | Client Info | | 700 | --- | --- |
| Filter Age | hrs | Client Info | | 700 | --- | --- |
| Oil Changed | | Client Info | | Not Changd | --- | --- |
| Filter Changed | | Client Info | | Not Changd | --- | --- |
| Sample Status | | | | NORMAL | --- | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|----------|-----|---------------|-----|--------------|-----|-----|
| Iron | ppm | ASTM D5185(m) | >75 | 3 | --- | --- |
| Chromium | ppm | ASTM D5185(m) | >8 | 0 | --- | --- |
| Nickel | ppm | ASTM D5185(m) | >2 | <1 | --- | --- |
| Titanium | ppm | ASTM D5185(m) | >3 | <1 | --- | --- |
| Silver | ppm | ASTM D5185(m) | >2 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185(m) | >15 | 1 | --- | --- |
| Lead | ppm | ASTM D5185(m) | >18 | <1 | --- | --- |
| Copper | ppm | ASTM D5185(m) | >80 | 2 | --- | --- |
| Tin | ppm | ASTM D5185(m) | >14 | 0 | --- | --- |
| Vanadium | ppm | ASTM D5185(m) | | 0 | --- | --- |

CONTAMINATION

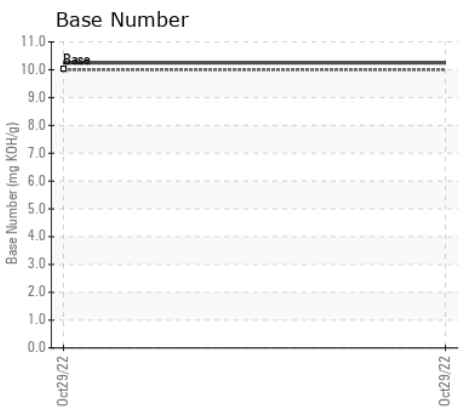
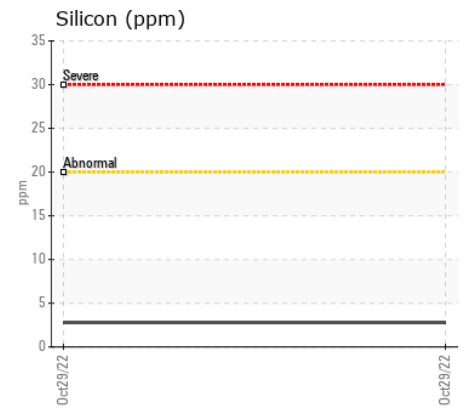
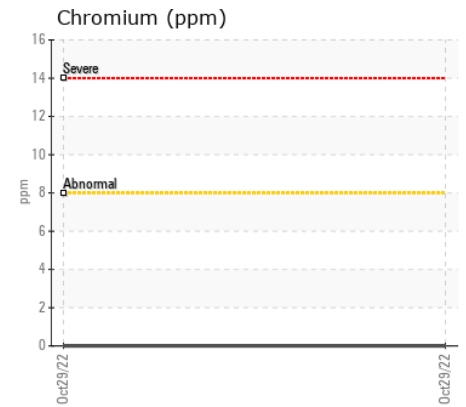
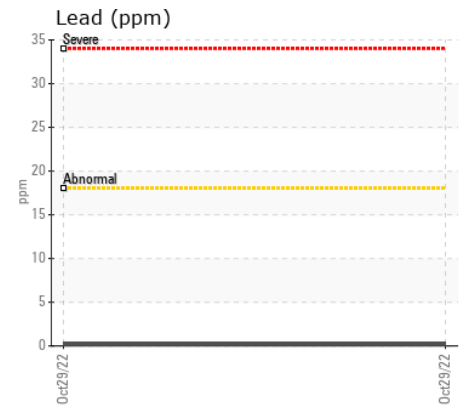
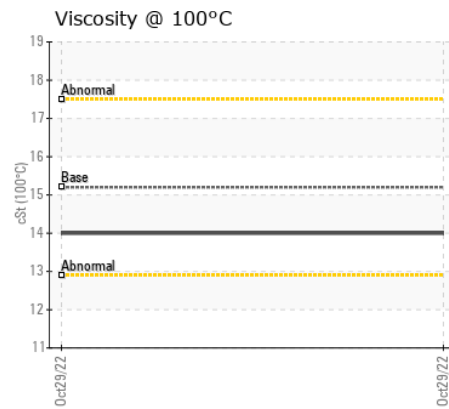
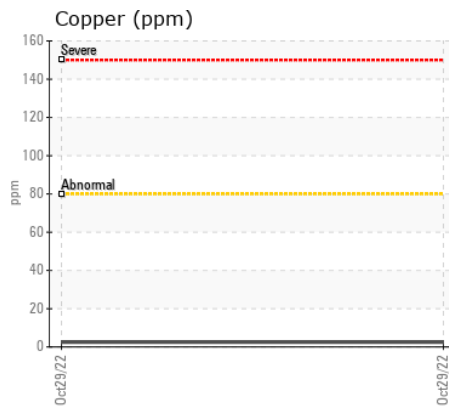
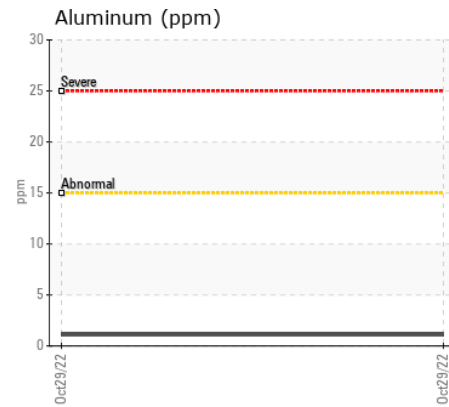
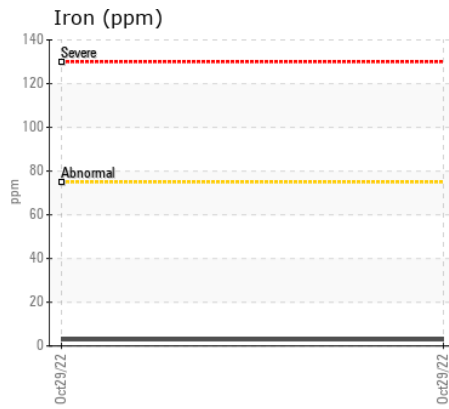
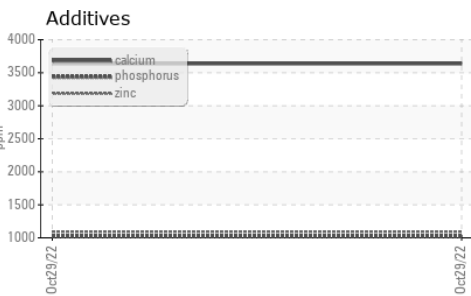
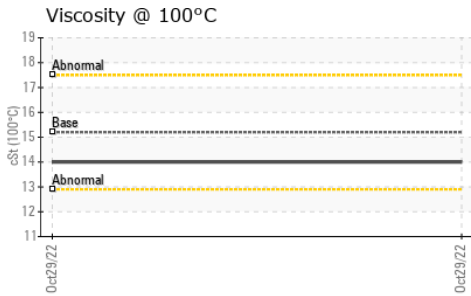
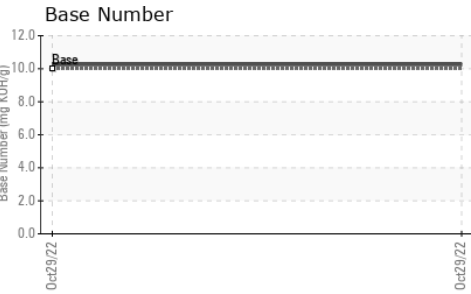
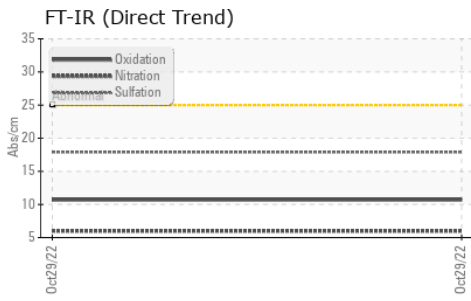
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|------|----------------|-----|-----|
| Silicon | ppm | ASTM D5185(m) | >20 | 3 | --- | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | 1 | --- | --- |
| Fuel | | WC Method | >4.0 | <1.0 | --- | --- |
| Water | | WC Method | >0.1 | NEG | --- | --- |
| Glycol | | WC Method | | NEG | --- | --- |
| Soot % | % | ASTM D7844* | | 0 | --- | --- |
| Nitration | Abs/cm | ASTM D7624* | >20 | 6.0 | --- | --- |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 17.9 | --- | --- |
| Emulsified Water | scalar | Visual* | >0.1 | NEG | --- | --- |

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil.
 The BN result indicates that there is suitable alkalinity remaining in the
 oil. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|---------------|------|--------------|-----|-----|
| Sodium | ppm | ASTM D5185(m) | >75 | 1 | --- | --- |
| Boron | ppm | ASTM D5185(m) | 30 | 1 | --- | --- |
| Barium | ppm | ASTM D5185(m) | | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185(m) | | <1 | --- | --- |
| Manganese | ppm | ASTM D5185(m) | | <1 | --- | --- |
| Magnesium | ppm | ASTM D5185(m) | 110 | 9 | --- | --- |
| Calcium | ppm | ASTM D5185(m) | 2740 | 3637 | --- | --- |
| Phosphorus | ppm | ASTM D5185(m) | 1240 | 1021 | --- | --- |
| Zinc | ppm | ASTM D5185(m) | 1350 | 1092 | --- | --- |
| Sulfur | ppm | ASTM D5185(m) | 3520 | 3705 | --- | --- |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 10.7 | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896* | 10.0 | 10.25 | --- | --- |
| Visc @ 100°C | cSt | ASTM D7279(m) | 15.2 | 14.0 | --- | --- |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : OF0000556
Lab Number : 02522752
Unique Number : 5487733
Test Package : MOB 2

Received : 15 Nov 2022
Tested : 17 Nov 2022
Diagnosed : 17 Nov 2022 - Kevin Marson

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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.