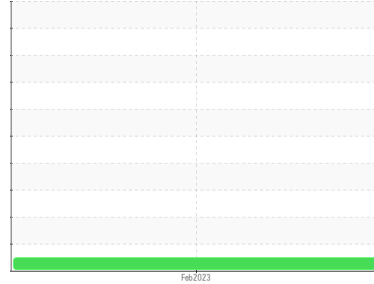




Machine Id
RETOIG
Component
Unknown Component
Fluid
NOT GIVEN (--- GAL)



DIAGNOSIS

Recommendation
Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the component make and model with your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please provide more complete information on your next sample.

Wear
Component wear rates appear to be normal (unconfirmed).

Contamination
There is no indication of any contamination in the component(unconfirmed).

Fluid Condition
Viscosity of sample indicates oil is within ISO 46 range, advise investigate. The condition of the sample is acceptable for the time in service.

SAMPLE INFORMATION method limit/base current history1 history2

| | | | | |
|---------------|-----------------|--------------------|-----|-----|
| Sample Number | Client Info | PC | --- | --- |
| Sample Date | Client Info | 07 Feb 2023 | --- | --- |
| Machine Age | hrs Client Info | 0 | --- | --- |
| Oil Age | hrs Client Info | 0 | --- | --- |
| Oil Changed | Client Info | N/A | --- | --- |
| Sample Status | | NORMAL | --- | --- |

WEAR METALS method limit/base current history1 history2

| | | | | | |
|-----------|-----|---------------|--------------|-----|-----|
| Iron | ppm | ASTM D5185(m) | 5 | --- | --- |
| Chromium | ppm | ASTM D5185(m) | 0 | --- | --- |
| Nickel | ppm | ASTM D5185(m) | 0 | --- | --- |
| Titanium | ppm | ASTM D5185(m) | 0 | --- | --- |
| Silver | ppm | ASTM D5185(m) | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185(m) | 0 | --- | --- |
| Lead | ppm | ASTM D5185(m) | 0 | --- | --- |
| Copper | ppm | ASTM D5185(m) | <1 | --- | --- |
| Tin | ppm | ASTM D5185(m) | 0 | --- | --- |
| Antimony | ppm | ASTM D5185(m) | <1 | --- | --- |
| Vanadium | ppm | ASTM D5185(m) | 0 | --- | --- |
| Beryllium | ppm | ASTM D5185(m) | 0 | --- | --- |
| Cadmium | ppm | ASTM D5185(m) | 0 | --- | --- |

ADDITIVES method limit/base current history1 history2

| | | | | | |
|------------|-----|---------------|--------------|-----|-----|
| Boron | ppm | ASTM D5185(m) | 3 | --- | --- |
| Barium | ppm | ASTM D5185(m) | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185(m) | 0 | --- | --- |
| Manganese | ppm | ASTM D5185(m) | 0 | --- | --- |
| Magnesium | ppm | ASTM D5185(m) | 0 | --- | --- |
| Calcium | ppm | ASTM D5185(m) | 0 | --- | --- |
| Phosphorus | ppm | ASTM D5185(m) | 0 | --- | --- |
| Zinc | ppm | ASTM D5185(m) | <1 | --- | --- |
| Sulfur | ppm | ASTM D5185(m) | 23 | --- | --- |
| Lithium | ppm | ASTM D5185(m) | 1 | --- | --- |

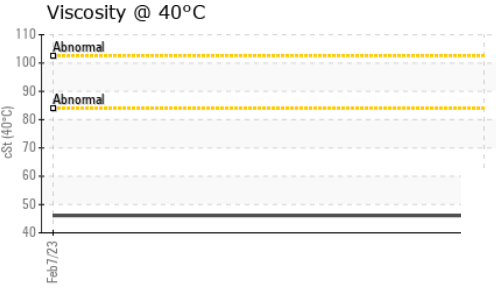
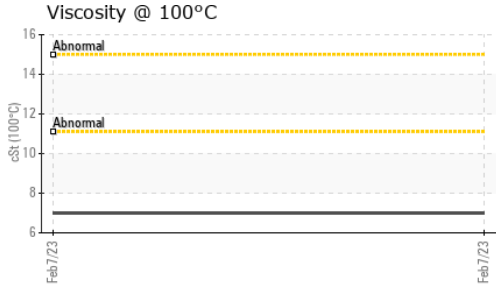
CONTAMINANTS method limit/base current history1 history2

| | | | | | |
|-----------|-----|-------------------|--------------|-----|-----|
| Silicon | ppm | ASTM D5185(m) | <1 | --- | --- |
| Sodium | ppm | ASTM D5185(m) | 0 | --- | --- |
| Potassium | ppm | ASTM D5185(m) >20 | 1 | --- | --- |

VISUAL method limit/base current history1 history2

| | | | | | | |
|------------------|--------|---------|-------|--------------|-----|-----|
| White Metal | scalar | Visual* | NONE | NONE | --- | --- |
| Yellow Metal | scalar | Visual* | NONE | NONE | --- | --- |
| Precipitate | scalar | Visual* | NONE | NONE | --- | --- |
| Silt | scalar | Visual* | NONE | NONE | --- | --- |
| Debris | scalar | Visual* | NONE | NONE | --- | --- |
| Sand/Dirt | scalar | Visual* | NONE | NONE | --- | --- |
| Appearance | scalar | Visual* | NORML | NORML | --- | --- |
| Odor | scalar | Visual* | NORML | NORML | --- | --- |
| Emulsified Water | scalar | Visual* | | NEG | --- | --- |
| Free Water | scalar | Visual* | | NEG | --- | --- |

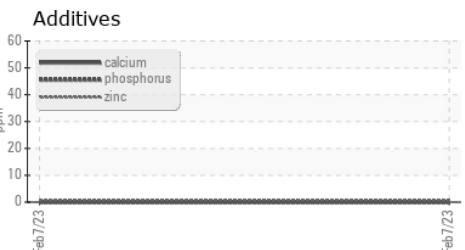
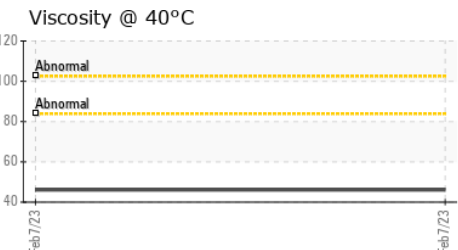
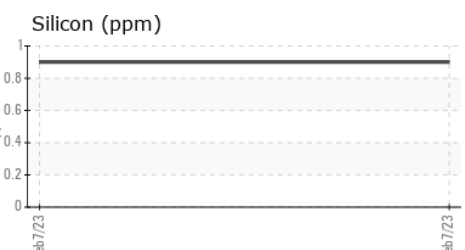
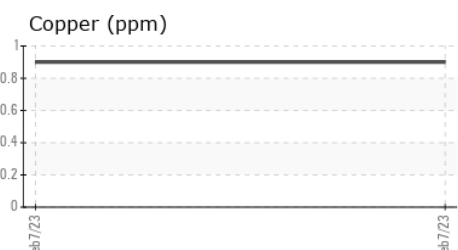
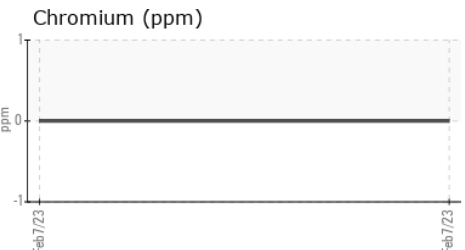
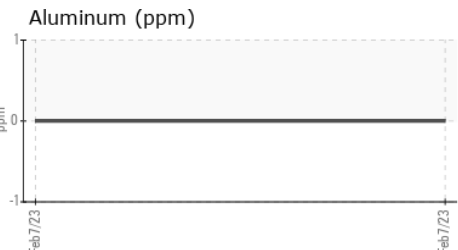
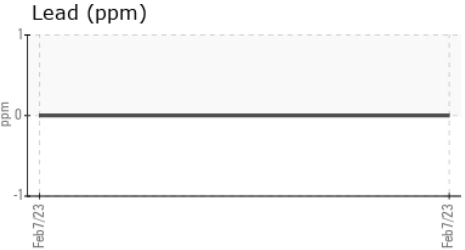
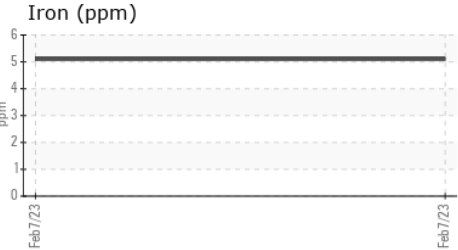
OIL ANALYSIS REPORT



| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|----------------------|-------|---------------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D7279(m) | | 46.1 | --- | --- |
| Visc @ 100°C | cSt | ASTM D7279(m) | | 7 | --- | --- |
| Viscosity Index (VI) | Scale | ASTM D2270* | | 108 | --- | --- |

| SAMPLE IMAGES | | method | limit/base | current | history1 | history2 |
|---------------|--|--------|------------|---------|----------|----------|
| Color | | | | | no image | no image |
| Bottom | | | | | no image | no image |

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Ocean Choice International - Katsheshuk II
Sample No. : PC **Received** : 08 Feb 2023 1315 Topsail Rd, P.O. Box 8190
Lab Number : 02538161 **Diagnosed** : 08 Feb 2023 St. John's, NL
Unique Number : 5527161 **Diagnostician** : Kevin Marson CA A1B 3N4
Test Package : MOB 1 (Additional Tests: KV100, VI) Contact: Chief Engineer

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