**LUBCARE™**

**LUBRICATION OIL Analysis Report**

**Vessel Name**: Confidential  
**Customer**: Confidential  
**Equipment**: Main Engine  
**Sampling Point**: After Purifier  
**Date Sampled**: March 6, 2013  
**Port Sampled**: Baltimore (U.S.A.)  
**Oil Brand Name**: Confidential  
**Lubricant Life (Hours)**: 1,874  
**Equipment Life (Hours)**: 15,000  
**Kinematic Viscosity at 40°C (cSt)**: 105,5  
**Kinematic Viscosity at 100°C (cSt)**: 14,8  
**Viscosity Index**: 98  
**Total Base Number (TBN)** (mgKOH/g): 7,7  
**Total Acid Number (TAN)** (mgKOH/g): -  
**Insolubles (In Hexane)** (% w/w): 0,17  
**Water (Suspended)** (% w/w): 0,10  
**Flash Point (Closed Cup)** (°C): >200  
**Iron (Fe)** (mg/Kg): 32  
**Sodium (Na)** (mg/Kg): 10  
**Vanadium (V)** (mg/Kg): 4  
**Nickel (Ni)** (mg/Kg): 1  
**Copper (Cu)** (mg/Kg): 8  
**Aluminium (Al)** (mg/Kg): 1  
**Silicon (Si)** (mg/Kg): 5  
**Lead (Pb)** (mg/Kg): Not Detected  
**Chromium (Cr)** (mg/Kg): Not Detected  
**Tin (Sn)** (mg/Kg): 4  
**Magnesium (Mg)** (mg/Kg): 10

## RESULTS

### SERVICE

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## HISTORY

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<thead>
<tr>
<th>Date</th>
<th>Port Sampled</th>
<th>Oil Brand Name</th>
<th>Lubricant Life (Hours)</th>
<th>Equipment Life (Hours)</th>
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<th>Water (Suspended) (% w/w)</th>
<th>Flash Point (Closed Cup) (°C)</th>
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<td>&gt;200</td>
</tr>
</tbody>
</table>

## COMMENTS

As water and insoluble contents are moderate, the separator efficiency can not be expected higher.

Spectroscopy analysis did not show evidence of significant wear.

Oil suitable for further use.

- Retain this report for Insurance or Classification Society Inspection -