

OIL FILTRATION SYSTEM



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# CJC TM Application Study

# Fishing Vessel - Central Hydraulic System

## **CUSTOMER**

Shipowner: DALMOR S.A., Gdynia,

Country: Poland Vessel: m/t "ATRIA"

Contact Person: Mr. Edmund

Wojciszke

#### THE SYSTEM

Central hydraulic system 3.500 ltr. Castrol HYSPIN AWHM 68 oil.

# THE PROBLEM

The shipowner had experienced problems with the hydraulic system represented by hanging valves and trapped pistons. An investigation traced this back to high oxidation levels and particle contamination. Physically the oil was black.

# THE SOLUTION

A CJC <sup>TM</sup> Fine Filter HDU 27/54 MZ with pump flow rate 590 ltr/hr using CJC <sup>TM</sup> Filter Insert type B 2x27/27 (3 $\mu$ m absolute).

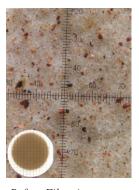
#### THE RESULT

Since the installation the CJC <sup>TM</sup> Fine Filter has run continuously 24 hours a day in order to effectively retain both particles and resin. The resin has been effectively removed by absorption into the filter insert.

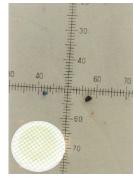
During 10 months of filtration the oil has been cleaned from ISO 4406 21/20/17 til 15/14/9. After the oil has been cleaned the hydraulic system operates without problems and the vessel's engineers can concentrate on other problems.



Fishing trawler and fish processing plant m/t "Atria" in Gdynia Port.



Before Filtration



After Filtration

## THE RESULT

Sample date	9.11.00	11.11.00	23.11.00	7.12.00	22.10.01
Particle > $5\mu$ m	559240	357814	147592	132098	11073
Particles >15μm	76928	20747	24413	14278	351
ISO 4406 Code	21/20/17	21/19/15	20/18/15	15/18/14	15/14/9
Colour membrane	Brown	1. Brown	1. Brown	1. Brown	White
T.A.N. Mg KOH/g.	0,871	0,757	0,717	0,737	0,548

