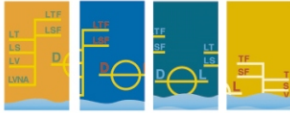




OIL FILTRATION SYSTEMS

# CJC™ Application Study

## Hydraulic Oil - Fishing Vessel



MARINE

*Application Study  
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Poland*

2002

### CUSTOMER

**Vessel:** m/t "ATRIA".  
**Shipowner:** Dalmore S.A., Gdynia.  
**Country:** Poland.  
**Contact Person:**  
Mr. Edmund Wojciszke.

### THE SYSTEM

Central hydraulic system 3.500 ltr.  
Castrol HYSPIAWHM 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™ FineFilter HDU 27/54 MZ** with pump flow rate 590 ltr/hr using **CJC™ FilterInsert B 2x 27/27** (3µm absolute).

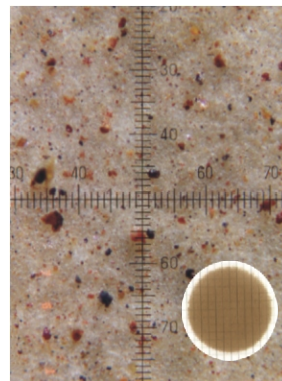
### THE RESULT

Since the installation the CJC™ FineFilter has been running 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.

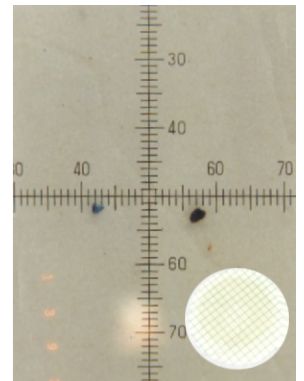
During 10 months of filtration the oil has been cleaned from ISO 4406 21/20/17 til 15/14/9. After the oil has been cleaned the hydraulic system operates without problems and the vessel's engineers can concentrate on other problems.



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



*Before filtration.*



*After filtration.*

### THE RESULT

Sample date:	09.11.00	11.11.00	23.11.00	07.12.00	22.10.01
Particle > 2µm:	1,508,416	1,392,976	700,336	801,374	19,246
Particle > 5µm:	559,240	357,814	147,592	132,098	11,073
Particle > 15µm:	76,928	20,747	24,413	14,278	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
TAN mg KOH/g:	0.871	0.757	0.717	0.737	0.548

