

CJC[™] Application Study



CUSTOMER

 Ship:
 M/V "Island Scout" M/V "Island Pride"

 Ship owner:
 Island Offshore Management AS

 Contact person:
 Trond Hauge

Approx. 400 L

THE SYSTEM - M/V *"ISLAND SCOUT"* ystem: CPP-system with gear box

System: Oil volume: Oil type:

THE SYSTEM - MIV "ISLAND PRIDE"

System: Oil volume: Oil type:

CPP-system with gear-box Approx. 450 L Castrol Coral D (stern tube oil) Castrol MHP 154 (engine lube oil)

Castrol MHP-154 (engine lube oil)

PROBLEM

Water in the stern tube oil in both ships.

SOLUTION

 $\textbf{CJC}^{\text{\tiny M}}$ Desorber D10 with built-in heat exchanger and pump.

THE RESULT - M/V "ISLAND SCOUT"

M/V "Island Scout" had the CJC[™] Desorber D10 on board from M/V "Island Pride" and put it into operation on the port stern tube. At that time, there was 2.4% water in the stern tube oil, corresponding to approx. 10 L of water in the system (2.4 x 400/100 = 9.6 L).

The desorber was put into operation in the afternoon on 8th of May. 15 hours later the desorber had removed approx. 5 L of water. Over the following 24 hours the desorber removed additional 5 L of water and the last oil samples showed a water content of less than 0.05%. The oil is now again clear and fine for further use on the port stern tube. Before the desorber came on board the oil had a brownish-milky colour. The Desorber D10 was moved to the starboard stern tube and with a similar result.

The CJC[™] Desorber circulates approx. 45 L/h and needs only 10A as the heater is only of 0.6 KW, 1 phase. The desorber proved unique for this situation as it can work while the vessel is in operation.

THE RESULT - M/V "ISLAND PRIDE"

The CJCTM Desorber D10 was in operation for approx. 60 hours before an oil sample was taken. Over the same period, approx. 26 L of water was removed from the stern tube oil. Before the desorber was started, an oil sample showed 8% of water, corresponding to approx. (450 x 8/100) = 36 L of water in the stern tube.

A sample now shows 2.2% corresponding to approx. 10 L of water in the stern tube, a result that we, of course, are very pleased with. This sample indicates to us that the desorber works very well and we expect to see even further reduction in the water content.







CJC™ Desorber D10

THE RESULT

	Before	After	Total removal
M/V "Island Scout"			
Water, %	2.5%	0.05%	
Water, L	10 L	0.2 L	9.8 L
M/V "Island Pride"			
Water, %	8%	2.2%	
Water, L	36 L	10 L	26 L

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