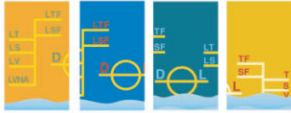




OIL FILTRATION SYSTEMS

# CJC™ Application Study

## Gear Oil - Reefer Vessel, Reduction Gear



### MARINE

*Application Study  
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2000

### CUSTOMER

**Vessel:** M/S Chilean Reefer.  
**Shipowner:**  
Lauritzen Reefers A/S.  
**Contact person:** Peter M. Petersen.

### THE SYSTEM

Reduction gear type ULSTEIN  
6000 AG-KP for main engine MAN  
B&W 9L 58/64.  
Gear oil: BP Energol GRXP 150.

### THE PROBLEM

The oil in the gearbox was contaminated with resin formations, making it impossible to carry out a proper particle count on the oil. The ISO code was estimated to 21/18 which is considerably above the required cleanliness level of ISO 18/15 as recommended by ULSTEIN.

### THE SOLUTION

**CJC™ FineFilter HDU 27/54 MZ**  
with **pump** flow rate = 590 ltr./hour  
and **CJC™ FilterInsert 2xB 27/27**,  
3 µm (micron) absolute.

### THE TEST

Oil samples were taken before the filter start up and after 27 days of filtration.

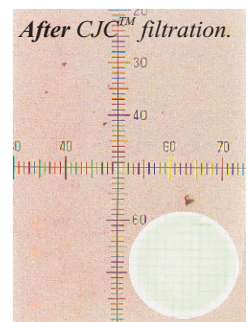
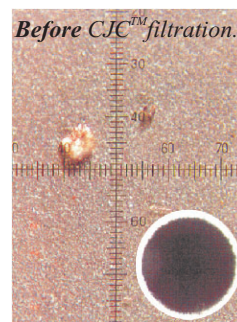
### THE RESULT

As illustrated to the right, installing the CJC™ filter has resulted in a considerable contamination reduction. The ISO code was reduced from 21/18 to 13/10.

On a yearly basis with 7,600 running hours this reduces the amount of dirt passing the lubricating pump from 371 kilos to 45 kilos, increasing pump life by a factor 4.



*CJC™ FineFilter HDU 27/54 MZ  
installed on the reduction gear of M/S Chilean Reefer.*



### THE RESULT

Particles	Before filtration	After filtration
> 5 µm:	>1,100,000	<8,000
> 15 µm:	>130,000	<1,000
ISO 4406 Code:	21/18	13/10
Colour of membranes:	Dark	White

