



CLEAN OIL
BRIGHT IDEAS

Application Study
written by:

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In close collaboration
with:
Lauritzen Reefers A/S

2000

CJC™ Application Study

CUSTOMER

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

THE SYSTEM

4 Liebherr cranes, 2 of BW 36 and 2 of BW 8, each containing max. 800 ltrs. BP Bartran HV-X 46 hydraulic oil.

THE PROBLEM

Lauritzen Reefers were experiencing increased maintenance costs on these cranes, primarily due to expensive hydraulic pump and motor failures.

THE SOLUTION

CJC™ Fine Filter HDU 15/25 PM with pump flow rate of 45 L/ h, and with **CJC™ Filter Insert A 15/25** (3 µm absolute).

THE RESULT

After the installation of the CJC™ filters there has been no hydraulic breakdowns on the cranes. Consequently, costly repairs and down time have been saved.

The oil contamination level has been continuously reduced since installing the filters. On crane no. 4 the number of > 5 µm particles was reduced from > 100,000 to < 8,000 per 100 mL of oil.

During the test period hydraulic hoses were replaced on cranes nos. 1 and 3, which immediately caused a deterioration of the oil cleanliness.

This proves how planned maintenance may lead to problems rather than preventing them, if the system is not equipped with an efficient filtration equipment.



M/S Chilean Reefer



CJC™ HDU Fine Filter 15/25
installed on the crane of
M/S Chilean Reefer

THE RESULT

Date	Crane No 1	Crane No 2	Crane No 3	Crane No 4
27.01.99	16/13	16/14	17/14	18/14
27.05.99	17/14	18/14	17/14	16/12
06.06.99	14/11	15/12	15/12	14/12
25.11.99	16/13*)	14/10	15/12*)	13/10
14.12.99	13/12	-	13/10	-

*) Hydraulic hoses changed