OIL FILTRATION SYSTEMS

MARINE

CJC™ Application Study

Marine Cranes on Lauritzen Reefers A/S

Application Study written by
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in close collaboration with
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CUSTOMER

Shipowner: Lauritzen Reefers A/S.
Vessel: M/S Chilean Reefer.
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.

THE PROBLEM

Lauritsen 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 = 45 ltrs./ hour, and with **CJC™ Filter Insert** type 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 & 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.

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

THE RESULTS

Date	Crane # 1	Crane # 2	Crane # 3	Crane # 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.*

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