



CLEAN OIL
BRIGHT IDEAS

Lubrication Oil Coaster, Diesel Engine

CJC™ Application Study

Application Study
written by:

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CUSTOMER

Vessel: M/S Monsunen
Shipowner: Rederiet Monsunen
Type: Coaster
Contact person: Carl E.L. Andersen

THE SYSTEM

Engine: Volvo Penta TAMD 162
Oil system: 65 litres oil sump.
Consumption: 2 ltr/day
Oil: Elf Trophy Performance

THE PROBLEM

The oil was highly contaminated with blow-by debris, combustion particles, soot and wear metals. Leading to changes of oil and spin-on filters every 500 hours.

Due to the high running cost and abnormal wear of bearings etc. caused by the heavy contamination of the oil, the owner decided to install a fine filter on the engine lube oil sump.

THE SOLUTION

A **CJC™ Fine Filter HDU 27/54 PV** with pump flow rate of 45 ltr/hour and with **CJC™ Filter Insert A 2x27/27** (3 µm absolute).
Dirt holding capacity:
8 litres of dirt and 4 litres of water.

THE TEST

The filter was installed in an off-line circuit, and samples were taken periodically approximately every 500 hours.

THE RESULT

Contamination was reduced immediately and TBN number was kept stable during the test period of 3,125 hours in which no oil nor oil filters were changed.

This engine has had a history of abnormal wear but after 500 hours with the CJC™ Fine Filter it was characterized as good.



THE RESULT

Hours run	0	800	1525	2000	3125
Particles > 5 µm	269,360	128,370	96,630	59,630	68,260
ISO code 4406	19/17	17/14	17/14	16/13	17/13
Insolubles, g/ltr.	0.421	0.437	0.221	0.306	0.194
Water Content, %	0.1195	0.0916	0.0892	0.1676	0.0516
TBN	11.92	11.15	9.68	9.53	11.17