

CJCTM Application Study

Lubrication Oil - Bulk Carrier, Diesel Main Engine







MARINE

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CUSTOMER

Vessel: M/S Bolivar. Shipowner: Richard de Wilde.

THE SYSTEM

Bulk carrier with engine type: SKL 29/24, 6 cyl. AL2, 1320 kW at 1000 rpm. Lube oil: FINA Caprano S412, Fuel: Gas oil

THE PROBLEM

On his previous engines Mr. De Wilde experienced short lube oil change intervals and liner laquering.

THE SOLUTION

CJCTM FineFilter HDU 27/108 P-**EPT**, flow rate of 200 ltr./h. and with 4 CJC^{TM} **FilterInserts A27/27** (3 μm absolute). Dirt holding capacity: $4 \times 8 \text{ kg} = 32 \text{ kg}$.

THE TEST

The CJCTM filter unit was installed on the SKL engine and oil samples were taken from the sump at start up and regularly between 150 and 2,500 hours.

Filter inserts were replaced twice during the observation period: after 1,000 hours of operation.

No oil changes were carried out during the test period. However, oil was added to compensate for the engine consumption (~0.7 g/kWh).

The M/S Bolivar is equipped with CJCTM filters for particle and water removal from both main engine lube oil and gas oil system.

COMMENTS

Richard de Wilde, owner of M/S Bolivar said:

"I can only recommend the use of CJC filters - you will not believe how much dirt one element holds".





THE RESULT

Hours run:	0	150	525	791	1050	2489
Particles > 5 μm:	514,349	94,130	79,160	62,190	39,160	58,140
Particles >15 μm:	57,742	28,100	14,380	9,820	6,150	6,920
ISO 4406:	20/16	17/15	16/14	16/13	16/13	16/13
TBN:	11.94	11.82	11.92	11.54	11.35	10.93
Insolubres, gr/ltr:	0.39	0.26	0.39	0.592	0.872	0.652

