



OIL MAINTENANCE
INDUSTRY

Industrial Gear Box, Conveyor Belts, Coal Terminal

CJC™ Application Study

Application Study
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CUSTOMER

BMA. Coal Loading Terminal, Hay Point, Queensland Australia.

Hay Point Coal Terminal, located 38 km south of Mackay, is one of Australia's largest and most efficient coal recieval and export facilities.

THE SYSTEM

David Brown gearbox, 180 L of BP GRXP 320 (ISO VG 320). The gear box is driving a conveyor belt, which transports coal.

THE PROBLEM

Contamination in this gearbox was greater than ISO 22/22/17, what obviously indicates a much too high ingress and generation of particles in the oil system. Also oxidation deposits where found in the oil.

The customer had serious concerns about the long term reliability of this gearbox that is crucial for production needs.

THE SOLUTION

A CJC™ Fine Filter HDU 15/25 PV was installed with a flow rate of 45 litres per hour and using a CJC™ Filter Insert BG 15/25 with a dirt holding capacity of 1.5 litres.


THE TEST

Oil samples were taken on a weekly basis using both patch analysis and laser particle counting.

THE RESULT

Upon start up a result of greater than ISO 22/22/17. The contamination in the oil was greatly reduced over a 42 day period. The ISO particle count on day 42 is 15/13/12.

COMMENTS



Stauff Corporation has supplied more than 30 units to the BMA site.

BMA are in the process of fittings C.C.JENSEN Filters throughout the entire plant.

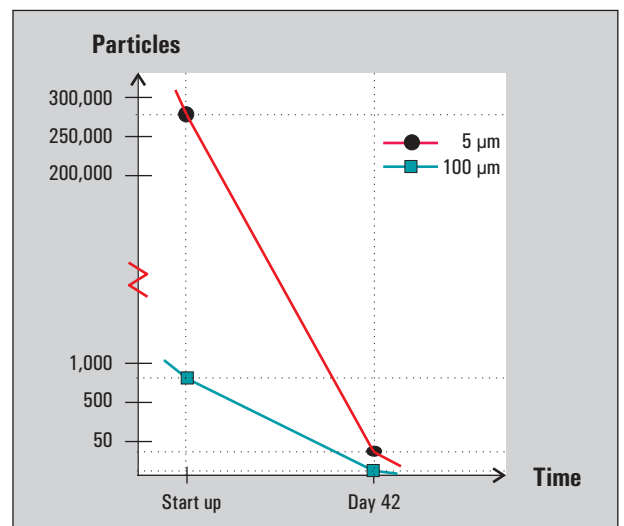


A conveyor belt at BMA Coal Loading Terminal.



A CJC™ Fine Filter HDU 15/25 at a Gear Box of BMA Coal Loading Terminal.

PARTICLE REDUCTION



THE RESULT

Particles	5 µm	100 µm	ISO code
Before	> 275,402	> 865	> 22/22/17
After	34	5	15/13/12