

Case Studies Summary

Facility	Voltage type *	Power (kW)	Speed (rpm)	MCM status	Status on examination	Result
Paint circulation pump	Low	18,5	1450	1st and 2nd level alarms.	As a result of a broken bearing housing, the motor coupling and key became worn, subsequently overloading the motor.	The front cover of the motor was repaired. Key and the coupling joint changed.
Conveyor chain motor	Low	1,5	1400	1 st level alarm.	The motor was noisy. Examination showed an oil leakage from the reductor housing.	The motor bearings were changed. The oil inside the motor was removed and the felt gasket changed.
Tank paint circulating pump	Low	11	1450	1st and 2nd level alarms.	Both the pump bearings and the seal were worn	Both bearings and seal were changed.
Filtration pump	Low	15	1450	1st and 2nd level alarms.	One of the stator phase windings was found to have a low resistance when hot.	The stator windings of the motor had previously been rewound and were still under guarantee. It was rewound again without further payment.

Facility	Voltage type *	Power (kW)	Speed (rpm)	MCM status	Status on examination	Result
Cool water circulating pump	Low	315	1488	1st , 2nd and 3rd level alarms.	During service a broken seal pump was found and replaced	The broken pump seal was changed.
Water pump	Medium	2500	740	4th level alarm.	One phase compensation capacitor was found to have exploded.	The capacitor was replaced.
Fuel pump motor	Low	22	2930	4th level alarm.	After the pump was serviced during routine maintenance, MCM continuously warned of misalignment between the motor and pump.	The misalignment problem was identified and resolved.
Paintshop activation pump	Low	7,5	2900	1st and 2nd level alarms.	The motor was serviced and a defect in the coupling found.	The coupling was changed.