



Marion 305M Dragline Gearboxes and Lube System : Drayton Coal - Rix's Creek, Singleton, NSW

Rix's Creek Mine Singleton N.S.W

During a routine maintenance shutdown of the Marion 305M Dragline, Rix's Creek commissioned Filter Technology to filter there rope box, flywheel bearing lube system and propel gearboxes.

Using a FM 504 buggy we connected the unit to the rope box for four days being 1000cst the flow was only 2 LPM as the oil was cold and heavily contaminated at the time.



Oil analysis were taken before, during and after filtration The before sample indicates the oil at ISO 23/22 and wear metals, iron 125ppm and PQ90 Fe 223 mg/ltr. At the end of four days the ISO had been reduced to 16/12, iron at 85ppm and PQ90 Fe at 3 mg/ltr.

Particulate contamination has been reduced by 94%, Iron by 35% and PQ90 Fe by 98%

