

CASE STUDY

USE OF TELEMATICS AND ECO OPERATOR TRAINING TO REDUCE MACHINE IDLE TIME

OVERVIEW

We were asked by our Client CSJV working on behalf of HS2, to assist them with a solution to reduce fuel wastage and Co2 emissions on site. Once involved we identified idle time as the first target for a large reduction in wasted fuel consumption and began to establish a baseline for the site as a whole so that the results of our endeavours could be measured through our telematic data.

ACTIONS

We used our existing telematic data to establish a baseline for our equipment on site, whilst the site average baseline for idling time by plant suppliers and sub contractors was 40.52%, M O'Brien's baseline for May 2020 was 25%. The nature of works was a contributing factor to this, with M O'Brien Plant supporting the project in its self delivery of the earthworks and any bulk excavations, the sub contractors working on civil and demolition activities. The project sought after a 20% reduction in idle time as a target to be achieve in the following 3 months.

M O'Brien created an ECO operator training syllabus that can be delivered on site in around 2 hours to a group of operators. Key learning points are around the reduction of idling, economic driving to engine load when excavating. More importantly the course explains to the operative why the reductions matter.

www.mobrienplanthire.co.uk

CASE STUDY

USE OF TELEMATICS AND ECO OPERATOR TRAINING TO REDUCE MACHINE IDLE TIME

ACTIONS

Once the importance of carbon reduction was explained to the operators and what it means for the future and future generations, we noticed more buy in from the operators. Following on from the training the operators were informed that a leader board was to be created for the operators with the best idle time score, this created a novel competitive element to the exercise and also boosted some camaraderie amongst them when results were read out.

It is important to note that Idle time was selected as it is a metric that does not have an impact on productivity and the main focus is for the machine to be switched off when not working, and once the machine shutdown procedure has been completed.

RESULTS

Over the next three months, along with CSJV we monitored the operators idle time performance and published a monthly leaderboard between contractors and between individual operators. The operator with the best reduction in idle time from the previous month won a £50.00 voucher.

Between may and July the project saw its idle time baseline reduce from 40.52% down to 34.52% an over 10% improvement over the 3 months. Site wide, the improvement to plant meant that over the course of those 3 months idle time was reduced by more than 146 hours, saved more than 1500L and £800 of fuel, and reduced carbon output by 4 tonnes.

M O'Brien's specific reductions over the 3 months were from a baseline of 25% and this reduced to 17.61% by July a 40% reduction in idle time. We were highly commended by the JV for our contribution to the reduction of their baseline and it was agreed that we would deliver our eco operator training to the operators working for their subcontractors going forwards to help achieve a better overall idle time figure.

The data gathered from the oem telematic systems show that the training module has a positive effect on the drivers behaviour, we can also see that a new operator to the project that hasn't yet received the training has a high level of idle time initially when compared to operators that have received the training and are a part of the leader board system.

For more information on our fuel and carbon saving initiatives, please contact your account manager to arrange a demonstration.

www.mobrienplanthire.co.uk

CASE STUDY

USE OF TELEMATICS AND ECO OPERATOR TRAINING TO REDUCE MACHINE IDLE TIME

DATA

The tables below show the performance of suppliers against the baseline and how they have been incorporated into a toolbox talk to promote further savings on site. The right hand table shows the 3 leading operators, and also a new operator to site, demonstrating the effect of the training.

Telematic data has played an important role to make our targets measurable and demonstrate attainability.























