

Fuel Saving Tournament Tool box Talk

Every year Keltbray uses around 4M litres of red diesel to power our plant and machinery, this equates to circa 10,000 tonnes of CO₂ going into the atmosphere.

With the red diesel tax rebate being removed in April 2022, our yearly fuel bill will increase by almost £2M.

We are therefore, looking at different ways to increase our efficiency which is how the fuel saving tournament was born.

As a group our excavators idle for 40% of the time. The fuel saving tournament challenges all the machine drivers to take action in order to reduce the time spent idling and awards those who make the biggest improvement.

This is a proven concept, we did this in our haulage department where it saved £65k worth of fuel and we have recently done this on our UCL project and it reduce out idling by 50%.

Key Points

- All the live projects which are currently using excavators above 8 Tonne have had their performance reviewed and a fuel efficiency report has been sent to the project team
- This is phase 1 and machines below 8 Tonne and other machine types will be reviewed in phase 2 and beyond.
- From the 1st July, we will challenge our drivers to improve their efficiency and reduce their idling. The results will be shared by the 10th of each month.
- The driver which improves their driving style the most from each project will be awarded £50 and a t-shirt.
- This will happen for 2 months, following this, we will carry on with the tournament but only award a t-shirt until the end of the year, where we will award 3 different prizes:
 1. A prize worth £500 to the driver with the biggest improvement throughout this competition
 2. A prize worth £300 to the project with the biggest improvement
 3. A prize worth £200 to the driver with the second biggest improvement through this competition
- The project manager will take a picture with the winning driver and post on the intranet
- A leader board will be hosted on the intranet, comparing the idling performance of the different projects

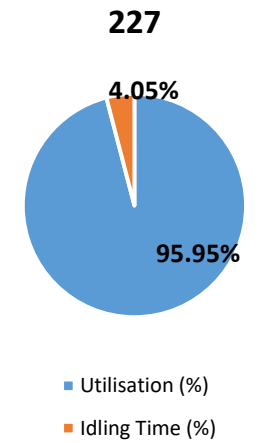
NOTE: THIS COMPETITION IS BETWEEN ALL EXCAVATORS ABOVE 8T WHICH WE HAVE DIRECT ACCESS OF ITS PERFORMANCE DATA.

WE ARE CURRENTLY CARRYING A TRIAL OF HOW TO CAPTURE DATA FROM THE MINI-DIGGERS, BUT CURRENTLY THESE WILL NOT PART OF THIS EXERCISE

Summary for Caterpillar excavators

Idling Legend: Above 30% (RED) Between 25%-29.99% (ORANGE) Below 25% (GREEN)

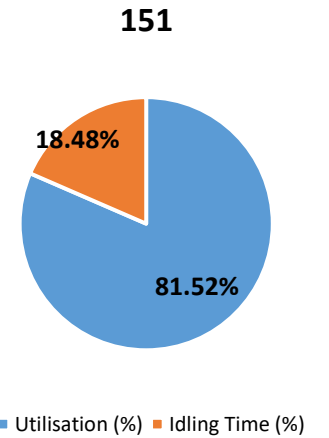
277 - KB 24T EXC CAT 320 DPF - PNL00281	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Totals & Average 2021
Active Hours					104.30								104.30
Idle hours	0.00	0.00	0.00	0.00	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.40
Total Hours					108.70								108.70
Utilisation (%)					95.95%								95.95%
Idling Time (%)	100.00%	100.00%	100.00%	100.00%	4.05%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	4.05%
Total - Fuel (L)					1764.90								1764.90
Fuel (L) - while working					1754.10								1754.10
Fuel (L) - while idling	0.00	0.00	0.00	0.00	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.80
Total - Fuel (£)	£0.00	£0.00	£0.00	£0.00	£1,182.48	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£1,182.48
Fuel (£) - while working	£0.00	£0.00	£0.00	£0.00	£1,175.25	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£1,175.25
Fuel (£) - while idling	£0.00	£0.00	£0.00	£0.00	£7.24	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£7.24



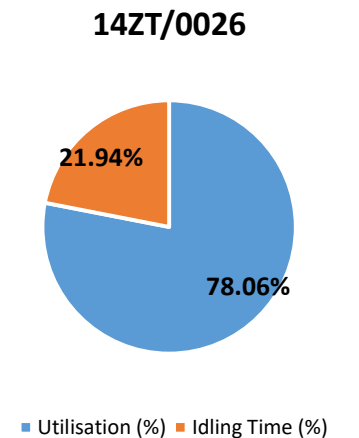
Summary for Komatsu excavators

Idling Legend: Above 30% (RED) Between 25%-29.99% (ORANGE) Below 25% (GREEN)

151 - KB 13T ZERO SWING EXCAVATOR PC138US-10 - 43463	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Totals & Average 2021
Active Hours	5.50	25.90	41.10	47.80	39.70								160.00
Idle hours	5.50	9.10	10.90	18.20	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.70
Total Hours	11.00	35.00	52.00	66.00	48.70								212.70
Utilisation (%)	50.00%	74.00%	79.04%	72.42%	81.52%								71.40%
Idling Time (%)	50.00%	26.00%	20.96%	27.58%	18.48%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	28.60%
Total - Fuel (L)	39.30	188.40	375.00	552.90	476.10								1631.70
Fuel (L) - while working	31.60	173.60	358.60	524.00	461.30								1549.10
Fuel (L) - while idling	7.70	14.80	16.40	28.90	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.60
Total - Fuel (£)	£20.44	£103.62	£210.00	£320.68	£318.99	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£973.73
Fuel (£) - while working	£16.43	£95.48	£200.82	£303.92	£309.07	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£925.72
Fuel (£) - while idling	£4.00	£8.14	£9.18	£16.76	£9.92	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£48.01



14ZT/0026 - KB 13T EXCAVATOR PC138US-11 KOMATSU - F50913	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Totals & Average 2021
Active Hours				63.30	84.70								148.00
Idle hours	0.00	0.00	0.00	14.70	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.50
Total Hours				78.00	108.50								186.50
Utilisation (%)				81.15%	78.06%								79.61%
Idling Time (%)	100.00%	100.00%	100.00%	18.85%	21.94%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	20.39%
Total - Fuel (L)				848.90	1016.00								1864.90
Fuel (L) - while working				823.00	979.00								1802.00
Fuel (L) - while idling	0.00	0.00	0.00	25.90	37.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.90
Total - Fuel (£)	£0.00	£0.00	£0.00	£492.36	£680.72	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£1,173.08
Fuel (£) - while working	£0.00	£0.00	£0.00	£477.34	£655.93	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£1,133.27
Fuel (£) - while idling	£0.00	£0.00	£0.00	£15.02	£24.79	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£39.81



364 - 36T EXCAVATOR PC360LCD-10 - K60343	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Totals & Average 2021
Active Hours				50.90	69.60								120.50
Idle hours	0.00	0.00	0.00	19.10	32.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.30
Total Hours				70.00	101.80								171.80
Utilisation (%)				72.71%	68.37%								70.54%
Idling Time (%)	100.00%	100.00%	100.00%	27.29%	31.63%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	29.46%
Total - Fuel (L)				1926.60	2476.30								4402.90
Fuel (L) - while working				1832.80	2333.60								4166.40
Fuel (L) - while idling	0.00	0.00	0.00	93.80	142.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	236.50
Total - Fuel (£)	£0.00	£0.00	£0.00	£1,117.43	£1,659.12	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£2,776.55
Fuel (£) - while working	£0.00	£0.00	£0.00	£1,063.02	£1,563.51	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£2,626.54
Fuel (£) - while idling	£0.00	£0.00	£0.00	£54.40	£95.61	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£150.01

