

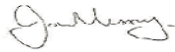
Operator: Tata Steel UK Ltd
Location: Port Talbot Works
Permit: BL7108 / RP3730BV

Iron Ore Sintering - Record of strand stoppages > 30 minutes				
Date	Time	Duration (mins)	Planned/	Reason
01-Apr-20	01/04/2020 10:48	22m	Unplanned	Stop to change r/rollers at days request.
02-Apr-20	02/04/2020 11:38	1h 18m	Operational	Stop taken to remove pallet to check hearth layer, during this time sinter sample 1026 taken 1018 bins emptied, No2 dcv over plated.
02-Apr-20	02/04/2020 16:04	23m	Mechanical	15 On no number on pallet removed
03-Apr-20	03/04/2020 16:23	54m	Mechanical	Patch repair on mixer
05-Apr-20	05/04/2020 08:19	1h 13m	Mechanical	Stop to replace R-Roller on 1027-con. Also empty 1018, Rapp precip and check product system.
05-Apr-20	05/04/2020 12:43	37m	Operational	Stop to cool hot Sinter on the cooler.
05-Apr-20	05/04/2020 16:33	1h 1m	Operational	Plant stopped to cool hot Sinter on the Cooler.
06-Apr-20	06/04/2020 21:37	19m	Mechanical	Angle/clamp found in 1001 head chute
07-Apr-20	07/04/2020 07:00	11h 40m	Planned Maintenance	Planned maintenance.
07-Apr-20	07/04/2020 19:30	1h 50m	Mechanical	Delay to weld repair protection plate on 1009
08-Apr-20	08/04/2020 03:05	19m	Mechanical	further checks on cooler due to North drive tripping
08-Apr-20	08/04/2020 13:41	2h 37m	Mechanical	Plant stopped to change support roller outer dip rail entry.
08-Apr-20	08/04/2020 22:00	4h 17m	Mechanical	Delay to remove and refit support roller
09-Apr-20	09/04/2020 09:54	22m	Mechanical	Cooler tripped. Ongoing issues with support roller / guide rollers
09-Apr-20	09/04/2020 10:18	9h 40m	Mechanical	Support roller dip rail entry, base ripped away, same removed. cooler then run empty to inner guide rollers being replaced 26/28 along with support roller and stool being refitted / welded
09-Apr-20	09/04/2020 20:36	1h 1m	Mechanical	Delay to adjust support roller
10-Apr-20	10/04/2020 02:58	54m	Operational	Delay taken to cool sinter due to high temps on 1027, and 1064
10-Apr-20	10/04/2020 09:16	58m	Mechanical	Stop to allow Jes to remove blanks from N03 Dcv
10-Apr-20	10/04/2020 11:29	20m	Electrical	North drive secure tacho on motor with braiding strap which had broke off.
10-Apr-20	10/04/2020 15:44	26m	Mechanical	Cooler north drive trip, bed change being carried out at time. G Jones carried out an inspection, electrician's reset. On restart large lump at No3 gate unable to remove, main gate opened large lump came out, in turn damaging bed height probes. Hood kept l
10-Apr-20	10/04/2020 18:05	16m	Electrical	Another cooler trip
10-Apr-20	10/04/2020 21:00	1h 33m	Mechanical	Stop to shim out tray 29 inner guide wheel by 10mm.
10-Apr-20	10/04/2020 20:09	16m	Operational	Stop to gap the cooler to allow guide roller repairs
10-Apr-20	10/04/2020 23:24	19m	Electrical	Cooler drive tripped, Tray No-5 @ SOUTH DRIVE.
11-Apr-20	11/04/2020 10:45	3h 31m	Mechanical	Repairs to cooler, also running repairs to 1057
12-Apr-20	12/04/2020 07:45	8h 5m	Mechanical	Longl fractured
13-Apr-20	13/04/2020 10:30	36m	Mechanical	delay to carry out repairs to cooler
13-Apr-20	13/04/2020 11:13	21m	Mechanical	delay to gap cooler ready for repairs
13-Apr-20	13/04/2020 13:07	4h 38m	Mechanical	Delay to carry out repairs on cooler
13-Apr-20	13/04/2020 20:09	23m	Mechanical	Cooler tripped/investigate
13-Apr-20	13/04/2020 22:38	1h 18m	Mechanical	Wheel sheared off pallet and lodged between rail and lifting sprocket
14-Apr-20	14/04/2020 00:27	57m	Mechanical	Pallet change for sheared wheel
15-Apr-20	15/04/2020 05:25	18h 37m	Planned Maintenance	delay to carry out repairs to cooler.
16-Apr-20	16/04/2020 00:54	2h 32m	Electrical	delay to check and replace cooler South drive main fuse
16-Apr-20	16/04/2020 08:25	1h 34m	Electrical	Trip cable south side t/e /888 gtu required changing as belt had cut into trip cable. During delay electrical repaired tacho on 1003 con tail drum new cable and j/b fitted.
16-Apr-20	16/04/2020 12:07	2h 34m	Mechanical	North and south waste gas fans tripped due to adiabatic cooling fans tripping, found new pump fitted on stop u/s x 2 fuses changed in panel. On restart Hood failed to lite. When going to restart plant hood failed to lite, hood eventually away, comms to be
19-Apr-20	19/04/2020 03:01	16m	Electrical	North bent beam activated and then restarted strand twice to get away, after that electrical adjusted bent beam to start the pallets moving.
19-Apr-20	19/04/2020 04:57	39m	Mechanical	Pallet change
19-Apr-20	19/04/2020 11:53	23m	Mechanical	Pallet change
19-Apr-20	19/04/2020 12:55	56m	Operational	Large lumps several times through mixer onto 1004

Signed on behalf of the Operator

Dated

18/11/20



Form Sinter Operational

RELEASES INTO AIR

Form Sinter Operational Cont.

Operational summary for quarter ending

30-Jun-20

Operator: Tata Steel UK Ltd
Location: Port Talbot Works
Permit: BL7108 / RP3730BV

Iron Ore Sintering - Record of strand stoppages > 30 minutes				
Date	Time		Planned/ Unplanned	Reason
	Start	Duration (mins)		
20-Apr-20	20/04/2020 21:06	2h 1m	Mechanical	Stop taken due to increased noise on 1023 Screen on inspection found exciter temps up 71° North 91°South Oil topped up in both, South exciter no filler cap, suspect contamination in oil.
20-Apr-20	20/04/2020 07:30	9h 20m	Mechanical	Exciter change
20-Apr-20	20/04/2020 17:33	55m	Operational	Hood Trip
21-Apr-20	21/04/2020 14:19	1h 21m	Mechanical	Stop to check / change the exciter oil on 1009 screen. Also clean grids under the exciters.
21-Apr-20	21/04/2020 15:40	25m	Electrical	Hood tripping repeatedly when trying to restart the plant.
22-Apr-20	22/04/2020 09:38	22m	Mechanical	Stop to inspect 1022-con joint condition.
24-Apr-20	24/04/2020 09:38	24m	Mechanical	Gapping cooler for repairs
24-Apr-20	24/04/2020 10:53	3h 26m	Mechanical	Trav 32 guide roller repair.
25-Apr-20	25/04/2020 18:21	21m	Operational	1027 temperatures above 1000C for 20 minutes-alarm
26-Apr-20	26/04/2020 10:58	1h 35m	Operational	Stop to check screen deck due to increased -5mm in finished sinter 13.7% and 17.5%..
26-Apr-20	26/04/2020 20:41	16m	Mechanical	Changing 2 return rollers on 1021
27-Apr-20	27/04/2020 18:21	20m	Mechanical	Pallet No135 holed large number of bars middle row/ replaced by Pallet No21
29-Apr-20	29/04/2020 04:50	15h 3m	Planned Maintenance	Planned pm stop
29-Apr-20	29/04/2020 21:43	19m	Operational	Run out of hearth layer. Ran cooler until start to replenish
29-Apr-20	29/04/2020 23:07	26m	Operational	Stop to sinter through
02-May-20	02/05/2020 11:05	2h 16m	Operational	Hole in windbox 7 needed patching
04-May-20	04/05/2020 11:18	4h 30m	Mechanical	Stop taken to change west g/r bearing on 1021 conveyor. Plus additional work see sinter comments below. Hood issues on restarting plant see below or new delay reporting page.
05-May-20	05/05/2020 13:55	4h 32m	Mechanical	Delay to replace damaged joint on 1065
06-May-20	06/05/2020 22:10	22m	Operational	Wet material through mixer. Buried the belt resulting in lump detector being activated
06-May-20	06/05/2020 09:29	3h 58m	Electrical	delay to carry out repairs inside de-dust precip
07-May-20	07/05/2020 05:09	34m	Mechanical	1028 stopped overloaded.
07-May-20	07/05/2020 05:43	1h 47m	Electrical	Hood failing the gas tightness check
07-May-20	07/05/2020 10:23	37m	Mechanical	Pallet change, wheel off south side. 61c Off 022 On.
07-May-20	07/05/2020 13:21	43m	Electrical	No-5 cooler fan stopped, product temperatures increasing, plant stopped to protect product belts.
09-May-20	09/05/2020 06:53	35m	Mechanical	pallet change
09-May-20	09/05/2020 21:50	35m	Operational	Hot Sinter on the cooler, stop to quench. Ignition hood trips when trying to relight.
11-May-20	11/05/2020 04:10	1h 38m	Mechanical	1028 con slippage blobbing the belt. Initially no route to hi-line. Conveyor hand dug to release.
11-May-20	11/05/2020 08:12	1h 35m	Electrical	Trip cable damaged due to material build up/ cable burnt, renewed cable then found plate lodged in mouth of 1020 feeder.
11-May-20	11/05/2020 15:48	1h 44m	Electrical	No2 Field lost all kv, fault finding ongoing plant
13-May-20	13/05/2020 06:36	1h 22m	Electrical	Delay to carry out repairs to no3 field on de-dust
13-May-20	13/05/2020 21:02	38m	Operational	Stop to sinter through.
13-May-20	13/05/2020 22:33	54m	Mechanical	1028 Tripped overloaded same dug off.
15-May-20	15/05/2020 19:00	12h 0m	Planned Maintenance	0
16-May-20	16/05/2020 19:00	12h 0m	Planned Maintenance	0
20-May-20	20/05/2020 07:20	59m	Operational	Filling strand and Sintering Through
20-May-20	20/05/2020 12:11	59m	Mechanical	Issue with CCF1 but also with CCF2, stopped to cool until fans back in play
20-May-20	20/05/2020 15:14	19m	Electrical	Spill point adjusted to 83% after taking Plant out at 98%
20-May-20	20/05/2020 17:24	16m	Mechanical	SW bearing temps trip

Signed on behalf of the Operator

Dated

18/11/20

Form Sinter Operational

RELEASES INTO AIR

Form Sinter Operational Cont.

Operational summary for quarter ending

30-Jun-20

Operator: Tata Steel UK Ltd
Location: Port Talbot Works
Permit: BL7108 / RP37308V

Iron Ore Sintering - Record of strand stoppages > 30 minutes				
Date	Time	Duration (mins)	Planned/	Reason
	Start		Unplanned	
20-May-20	20/05/2020 20:14	40m	Operational	1049 DDV/Chain blocked
21-May-20	21/05/2020 22:34	26m	Electrical	Change underspeed
23-May-20	23/05/2020 09:28	1h 1m	Mechanical	No-3 Limestone bunker run empty @ 83.5%
24-May-20	24/05/2020 19:36	23m	Mechanical	Delay to replace damaged rollers on 1027.
25-May-20	25/05/2020 23:23	26m	Mechanical	Delay to carry out pallet change (Pallet 62 off Pallet 25 on)
26-May-20	26/05/2020 16:00	36m	Access to restricted area	replace rollers on 1027 and 1021
28-May-20	28/05/2020 07:50	11h 12m	Planned Maintenance	Planned maintenance stop
28-May-20	28/05/2020 21:00	37m	Electrical	Cold crusher under speed
28-May-20	28/05/2020 23:12	22m	Electrical	Cold crusher under speed
29-May-20	29/05/2020 02:15	32m	Electrical	1066 trip fault
29-May-20	29/05/2020 09:14	4h 23m	Mechanical	Opportunity stop taken to carry out repairs to 1025 motor
30-May-20	30/05/2020 10:40	1h 19m	Operational	Delay to cool hot sinter. Also due to hood failing to light x 5.
31-May-20	31/05/2020 16:28	38m	Mechanical	Pallet change no 141 off and 024n on
01-Jun-20	01/06/2020 21:55	2h 1m	Mechanical	Delay to inspect and carry out repairs to 1025 screen deck
03-Jun-20	03/06/2020 01:40	20h 0m	Planned Maintenance	Run off for Planned Maintenance stop
05-Jun-20	05/06/2020 08:54	5h 57m	Mechanical	Louvre on tray 24 came off and found in 1020 bin
05-Jun-20	05/06/2020 16:25	30m	Mechanical	Wheel off on pallet no9
09-Jun-20	09/06/2020 10:14	2h 56m	Mechanical	opportunity stop taken to carry out cleaning around 1022 head end
10-Jun-20	10/06/2020 07:00	8h 36m	Planned Maintenance	Planned maintenance period, this includes 15Min checking waste gas fans idle rpm.
12-Jun-20	12/06/2020 11:10	3h 30m	Mechanical	Spring change...also other work carried out
12-Jun-20	12/06/2020 17:53	26m	Mechanical	Pallet No15 off 27c On
13-Jun-20	13/06/2020 00:20	20m	Operational	Gbl holding up in silo.
13-Jun-20	13/06/2020 08:50	10h 20m	Electrical	Loss of nitrogen Plant wide
15-Jun-20	15/06/2020 05:37	36m	Mechanical	Pallet change for hole, 134 off 26 on.
16-Jun-20	16/06/2020 08:00	12h 0m	Planned Maintenance	planned outage
16-Jun-20	16/06/2020 23:35	2h 14m	Mechanical	Delay to carry out repairs to cooler outer support rail.
18-Jun-20	18/06/2020 08:08	12h 2m	Planned Maintenance	Extended planned stop as No4 b/f off wind.
18-Jun-20	18/06/2020 22:25	16m	Operational	sinter through
19-Jun-20	19/06/2020 02:14	33m	Mechanical	pallet change, 118 off 030 on
22-Jun-20	22/06/2020 07:20	1h 9m	Operational	delay to clear 1005/1006 head chute and tail end of 1006
22-Jun-20	22/06/2020 11:00	1h 23m	Operational	delay to clear build up off 1025 screen deck
22-Jun-20	22/06/2020 14:31	1h 0m	Mechanical	delay to inspect 1022 due to dropping out, checks on motor/gear box, u/speed adjusted.
23-Jun-20	23/06/2020 20:02	55m	Operational	stop to check 1025 for blinding
24-Jun-20	24/06/2020 09:15	9h 33m	Planned Maintenance	Planned maintenance
23-Jun-20	23/06/2020 20:58	1h 22m	Electrical	issues with lighting the hood
25-Jun-20	25/06/2020 12:44	3h 26m	Electrical	issues with natural gas flow control valve.
25-Jun-20	25/06/2020 16:10	2h 29m	Electrical	issues with water flow valve under 1003
27-Jun-20	27/06/2020 12:38	1h 18m	Electrical	953 issues needed to stop to take end cover off to check chain. Turned out to be electrical under speed issue and not getting a pressure seal in the ddr.

Signed on behalf of the operator
Dated: 18-Nov-20

RELEASES INTO AIR

Form Sinter Operational Cont.

Iron Ore Sintering - Record of strand stoppages > 30 m 30-Jun-20

Operator: Tata Steel UK Ltd
Location: Port Talbot Works
Permit: BL7108 / RP3730BV

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Signed on behalf of the operator
Dated: 18-Nov-20

Johnny