

**Table 3.12 (Part 1) – Downtime data: Milling 02 Extraction**

MILLING 02 EXTRACTION						
<i>Operation / Equipment</i>	<i>Failure Type</i>	<i>Reason for stop</i>	<i>Failure Date</i>	<i>Start Time</i>	<i>Time to Next Failure (h)</i>	<i>Time to Repair (h)</i>
Mat Drag	Mechanical failure	Caught in the current drag drying suit.	30-Jun	18:02	18,03	4,63
Milling 02	Automation Fails	Suit drying does not show rotation.	30-Jun	22:40	0,00	1,32
Milling 02	Failure of project construction	Cable 4 to 20mA was not connected causing the absence of information and speed control of the	1-Jul	00:00	0,02	0,92
Milling 02	Failure of project construction	Cable 4 to 20mA was not connected causing the absence of information and speed control of the	1-Jul	01:06	0,18	0,68
Milling 02	Failure of project construction	Cable 4 to 20mA was not connected causing the absence of information and speed control of the	1-Jul	08:28	6,68	1,70
Milling 02	Automation Fails	Replacement of pickups drying suit turbine.	1-Jul	10:10	0,00	1,00
Milling 02	Mechanical failure	Cleaning and adjustment of the Servant 01 drying suit turbine.	1-Jul	11:10	0,00	2,00
Milling 02	Failure engineering design	Upper desaguador roller coupling is designed to 420 Nm while the set is for 494.48 Nm	2-Jul	22:09	32,98	0,25
Milling 02	Automation Fails	Unbound gearbox drive shaft side temperature came into failure.	3-Jul	10:59	12,58	0,10
Milling 02	Automation Fails	Trip milling drying	3-Jul	20:39	9,57	0,05
Milling 02	Automation Fails	Failure Pt100 temperature side drive shaft coupled to Reducer	7-Jul	09:13	84,52	0,08
Milling 02	Automation Fails	Failure Pt100 temperature side drive shaft coupled to Reducer	7-Jul	09:50	0,53	0,50
Milling 02	Automation Fails	Failure Pt100 temperature side drive shaft coupled to Reducer	7-Jul	11:13	0,88	0,70
Milling 02	Automation Fails	Failure Pt100 temperature side drive shaft coupled to Reducer	7-Jul	12:37	0,70	0,07
Milling 02	Automation Fails	Failure Pt100 temperature side drive shaft coupled to Reducer	7-Jul	12:51	0,17	0,15
Milling 02	Automation Fails	Failure Pt100 temperature side drive shaft coupled to Reducer	7-Jul	13:51	0,85	1,00
Milling 02	Failure engineering design	logic insertion into an instrument of reference only. (No calibration required)	7-Jul	21:36	6,75	0,22
Milling 02	Failure engineering design	logic insertion into an instrument of reference only. (No calibration required)	7-Jul	21:58	0,15	0,08
Milling 02	Failure of project construction	Failed donelly probes drying suit causing overload in the wake of drying suit.	9-Jul	08:37	34,57	0,55
Milling 02	Automation Fails	Failure mill automation.	10-Jul	10:19	25,15	0,37
Milling 02	Automation Fails	Failure of the mill lubrication system..	13-Jul	20:37	81,93	0,08
Milling 02	Mechanical failure	Trip suit drying (overspeed)	14-Jul	01:08	4,43	0,13
Milling 02	Mechanical failure	Trip suit drying (overspeed)	14-Jul	01:52	0,60	0,08
Milling 02	Mechanical failure	Trip suit drying (overspeed)	14-Jul	06:44	4,78	0,10
Milling 02	Mechanical failure	Trip suit drying low vapor pressure.	14-Jul	16:35	9,75	0,05
Milling 02	Mechanical failure	Trip suit drying (overspeed)	14-Jul	21:56	5,30	0,07
Milling 02	Mechanical failure	Trip suit drying (overspeed)	15-Jul	00:58	2,97	0,12
Milling 02	Mechanical failure	Trip suit drying (overspeed)	15-Jul	17:58	16,88	0,05
Milling 02	Mechanical failure	Trip suit drying (overspeed)	16-Jul	02:04	8,05	0,08
Milling 02	Mechanical failure	Trip suit drying (overspeed)	16-Jul	09:28	7,32	0,08
Milling 02	Mechanical failure	Trip suit drying (overspeed)	16-Jul	10:11	0,63	0,08
Milling 02	Mechanical failure	Trip suit drying (overspeed)	16-Jul	11:48	1,53	0,15
Milling 02	Mechanical failure	Trip suit drying due maintenance.	16-Jul	12:00	0,05	3,00
Milling 02	Mechanical failure	Trip suit drying due maintenance.	16-Jul	15:00	0,00	0,38
Milling 02	Mechanical failure	Dry suit not parte.Problema closing.	19-Jul	01:15	57,87	0,30
Milling 02	Mechanical failure	Grinding does not start, the problem fast closing.	19-Jul	06:31	4,97	0,48
Milling 02	Mechanical failure	Grinding does not start, the problem fast closing.	19-Jul	07:00	0,00	2,00

Source: The authors, (2016).