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**SPARKLINE EQUIPMENTS PVT.LTD.**

PLOT NO 38 F II BLOCK M I D C PIMPRI PUNE 411018

TEL PHONE: 27130317/ 27130689/65304270-4257

E-MAIL :spares.pune@sparkline.co.in

Customer Name: GE. John F. Welch Bangalore Project Code No.:

Hoist Type: SH 3008-20 4 1/2 L2 Capacity: 3000kg

Equipment Number: C.No - E1416 Hoist SR No: 1914186

Location: Phase 1 B2 Lab Date: 23/03/2018

Contact Person & Mobile Number: Mr. Prakash Shetty 9591272057

AMC Checking Points for Wire Rope Hoist with Crane

Sr. No	Checking Part	Checking Process	Efficiency		Remark
			Yes	No	
	Wire Rope Hoist				
1	Hoist Brake	Measurement Checking	✓		Found OK
2	Load hook	Measurement Checking	✓		OK
3	Limit Switch UP-DOWN	Operational Checking	✓		OK
4	Wire Rope	Measurement Checking	✓		7.00mm OK
5	Rope Guide	Visual Checking	✓		OK
6	Hoist Mounting Suspension	Tightness Testing		✓	NA
7	Hoist Mounting Bolt	Tightness Testing		✓	NA
8	Motor	Current & Resistance Testing	✓		OK
9	Wire Rope Drum Clamping	Tightness Testing	✓		OK
10	Lubrication	Visual feeling, checking & Greasing	✓		OK
11	Pendent cable Strain Relief top	Visual Checking	✓		OK
12	Pendent cable Strain Relief Bottom	Visual Checking	✓		OK
13	Check the C.T trolley Wheel circle clip	Visual Checking	✓		OK
14	Check the hoist trolley wheels	Measurement Checking	✓		OK
15	Check the flange width adjustable bolt	Visual Checking	✓		OK
16	C.T Break	Measurement Checking	✓		0.35 OK
17	S.L.E Reading	Visual Checking	✓		3.24 h OK
18	Rope sheave bottom hook block	Measurement Checking	✓		OK
19	Rope Sheave Top	Measurement Checking	✓		OK
20	Load cell function	Visual Checking	✓		OK
21	Rope anchor	Visual Checking	✓		OK
22	Remote & Pendant Function	Operational Checking	✓		OK

Contact Person Name Rituraj

Checked BY: Mr. Arindh P.

Signature Rg

Signature 3 Rituraj

B. Dangar -



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Customer Name: G.E. John F. Welch Bangalore **Project Code No.:****Hoist Type:** SH 3008 - 20 4/2 L2 **Capacity:** 3000kg**Equipment Number:** C.NO. E1416 **Hoist SR No:****Location:** Phase 1 B2 Lab **Date:** 23/03/2018**Contact Person & Mobile Number:** Mr. Prakash Shetty.

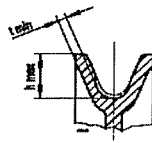
Sr. No	Checking Part	Checking Process	Efficiency		Remark
			Yes	No	
	<u>Wire Rope Hoist with Crane</u>				
1	Check the festooning rail end stopper	Visual Checking	✓		Found ok
2	Check the BusBar Mounting Bracket	Visual Checking	✓		Found ok
3	Check the BusBar Alignment	Visual Checking	✓		ok
4	Check C.T. Limit switch in Slow	Operational Checking	✓		ok
5	Check C.T. Limit switch in Fast	Operational Checking	✓		ok
6	Check L.T. Limit switch in Slow	Operational Checking	✓		ok
7	Check L.T. Limit switch in Fast	Operational Checking	✓		ok
8	Check End Stops For Cross Travel	Visual Checking	✓		ok
9	Check End Stops For Long Travel	Visual Checking	✓		ok
10	Check The Crane drive connection with bolts	Visual Checking	✓		ok
11	Checking of Festoning bolts	Spanner	✓		ok
12	Check the Buffer Stop bolts	Spanner	✓		ok
13	Check the end carries bolts	Spanner/Turque	✓		ok

Contact Person Name Rituraj**Checked BY:** Mr. Avinash Pawar**Signature****Signature**

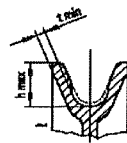
CHECK POINT IN WIRE ROPE HOIST

Rope sheaves				
Part number	OD	t min	h max	h new
01 430 01 53 0	98	4	13	11
01 430 04 53 0	100	4	13	10
01 430 00 53 0	125	4	14	12
22 330 00 53 0	140	4	16	14
01 430 06 53 0	152	4	21,5	19,5
03 330 20 53 0	160	4	19	16,5
24 330 00 53 0	200	5,5	24	21
01 430 05 53 0	218	5,5	26,5	24,5
01 430 03 53 0	225	5,5	24	21
03 330 40 53 0	250	5,5	28	25
25 330 00 53 0	375	6,5	37,5	34
25 330 03 53 0	375	6,5	36	32,5
46 330 00 53 0	400	7	33,5	30
26 330 01 53 0	450	10	39	35
09 430 00 53 0	450	10	39	35
46 330 01 53 0	480	10	36,5	32,5

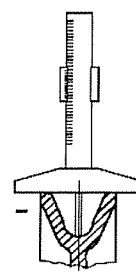
on one side
and at base



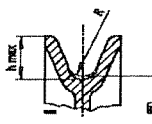
on both sides
and at base



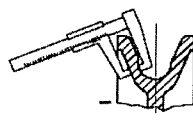
Measuring depth of
base of groove with
depth gauge



on both sides
and at base



Measuring thickness of wall
with special caliper gauge



Hoist Type

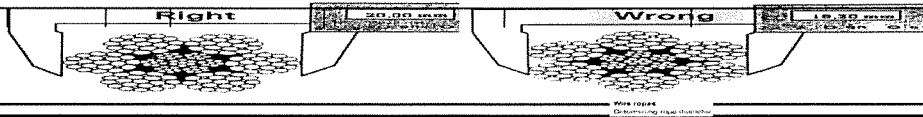
Sr. No.

SH3008-20 4/2 12
Actual
7.00 mm
7.00 mm
7.00 mm
7.00 mm
SR-19/4/86
OK

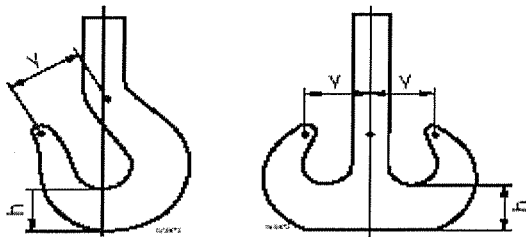
WIRE ROPE CHECKING

Rope diameter [mm]	5.5	7	9	9	12	12.5	14	20
Number of external strands	6	8	8	8	8	8	8	8
Rope make-up *	6x19 W	8x19 W	8x19 W	Alpha lift	Turbo lift	8x19 W	8x19 W	8x36 WS
Broken wires visible 1Bm, 1Am (FEM 9.661) 2m - 4m	5	6	6	6	9	6	6	12
over a length of [mm]	10	13	13	13	18	13	13	24
or	33	42	54	54	72	75	84	120
Broken wires visible 1Bm, 1Am (FEM 9.661) 2m - 4m	10	13	13	13	18	13	13	24
over a length of [mm]	19	26	26	26	35	26	26	48
over a length of [mm]	165	210	270	270	360	375	420	600



In accordance with DIN 15010, if the rope diameter drops to 10% below rated diameter the rope must be replaced



CHECK POINT IN HOIST - BOTTOMHOOK BLOCK



6.9.7 Checking load hook

RSN, RS, RF																	
	0,25	0,4	0,5	0,8	1	1,6	2,5	4	5	6	10	2,5	4	5	6	10	
	[mm]											[mm]					
h	24	29	31	37	40	48	58	67	75	85	106	58	67	75	85	106	
h _{min.}	18,24	27,55	29,45	35,15	38,0	45,6	55,1	63,65	71,25	80,75	100,7	55,1	63,65	71,25	80,75	100,7	

Y_{neu} see hook certificate

$Y_{zul} = 0,9 \times Y_{neu}$

If value h_{min} and/or Y_{zul} are reached \rightarrow replace hook

Actual h	Remark	Actual Y	Remark	Hoist Type	Hook Y new	Hook Y Max
50.00 mm	OK	79.00 mm	OK	SH3005 25 2/1	71.00mm	78.00mm
				SH3005 25 4/1	80.00mm	88.00mm
				SH4012 20 4/1	95.00mm	104.00mm
				SH5025 20 4/1	115.00mm	126.50mm

CHECK POINT IN LT&CT -BRAKE

Travel drive	Motor type	Brake	Braking torque [Nm]	S min. [mm]	S max. [mm]	t min [mm]	(4)	⤵ Nm
SF xx xxx 123	8/2F12/2xx.223	FDW 08	1,3	0,2	2,0	5,7	3xM4	3
SF xx xxx 133	8/2F13/2xx.233	FDW 08	2,5	0,2	1,6	6,1	3xM4	3
SF xx xxx 184	4F18/2xx.243	FDW 08	5	0,2	1,6		3xM4	3
SF xx xxx 313	8/2F31/2xx.423	FDW 13	5	0,3	2,0	8,8	3xM6	10
SF xx xxx 384	4F38/2xx.443	FDW 13	13	0,3	2,0	8,8	3xM6	10
SF xx xxx 423	8/2F42/2xx.433	FDW 13	8	0,3	2,0		3xM6	10
SF xx xxx 484	4F48/2xx.453	FDW 13	20	0,3	1,2	9,6	3xM6	10
SF xx xxx 523	8/2F52/2xx.523	FDW 15	13	0,3	2,0	10,8	3xM6	10

Travel drive	Motor type	Brake	Braking torque [Nm]	S min. [mm]	S max. [mm]	t min [mm]
SA-C ... 133	8/2F13/2xx.233	FDW 08	2,5	0,2	1,6	6,1
SA-C ... 184	4F18/2xx.243	FDW 08	5	0,2	1,6	
SA-C ... 313	8/2F31/2xx.423	FDW 13	5	0,3	2,0	8,8
SA-C ... 384	4F38/2xx.443	FDW 13	13	0,3	2,0	8,8
SA-C ... 423	8/2F42/2xx.433	FDW 13	8	0,3	2,0	
SA-C ... 484	4F48/2xx.453	FDW 13	20	0,3	1,2	9,6
SA-C ... 523	8/2F52/2xx.523	FDW 15	13	0,3	2,0	10,8

CHECK POINT IN LT&CT -BRAKE

Motor Make	Motor No	Motor Type	Max. permissible	Actual	Remarks
Stahl CT motor	1914186	SF17113123	2.00 mm	0.35	OK
SEW LT motor	23.01057169002	FA27/4DR63L4	2.00 mm	0.30	OK
SEW LT motor	23.01057169002	FA27/4DR63L4	2.00 mm	0.30	OK

CHECK POINT IN HOIST -BRAKE

Hoist motor type	Hoist brake	S max. [mm]	a [mm]	⤵
✓ 12/2H33	RSM16	0,8	25	9 Nm
4H33	RSM16	0,7		9 Nm
12/2H42	RSM32	0,9	25	9 Nm
4H42	RSM32	0,8		9 Nm
12/2H62	RSM60	1,7	25	22 Nm
4H62	RSM60	1,7		22 Nm
12/2H71	RSM100	1,8	30	22 Nm
4H71	RSM100	1,8		22 Nm
12/2H72	RSM150	1,8	30	22 Nm
4H72	RSM100	1,2		22 Nm
12/2H73	RSM150	1,6	25	22 Nm
4H73	RSM150	1,4	25	22 Nm
4H82	RSM250	1,5	31	45 Nm
24/4H92	RSM500	2,0	32	45 Nm

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	Hoist No	Hoist Type	Max. permissible	Actual	
		SH 3008	0.80	0.30	OK
	1914186	20 4/2			

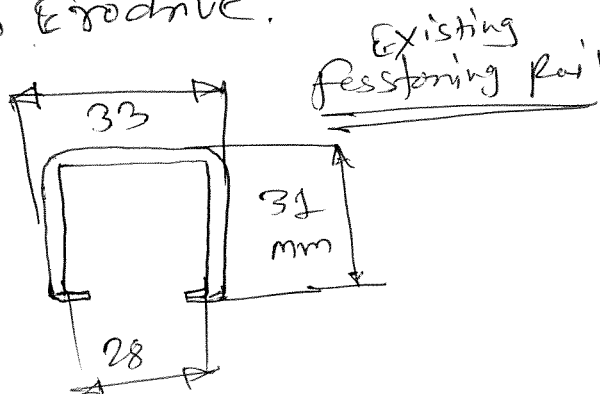
Hoist motor: 12/2 H33

VFD — SEW

Remote details — HBC make Rediomatic GmbH 01058

LT motor — SEW Ecodrive.

Bolts details
AKAPP make



- Visual inspection of wheels for wear. See tables for limits for wear.
 - Visual inspection of runway girder for wear.
- Visual inspection of wheel flanges for wear.

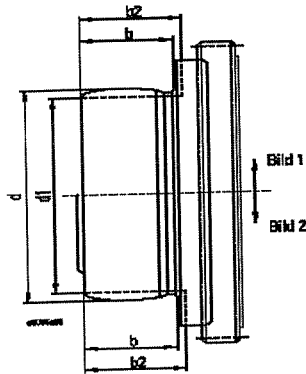


Fig.	Nominal value		Limit for wear	
	d [mm]	b [mm]	d1 [mm]	b2 [mm]
1	80	27,5	76	29,5
1	100	33	95	35
1	125	38	119	40
1	140	44,5	133	47
2		42,5		45
1	160	44,5	152	47
2	200	42,5	190	45



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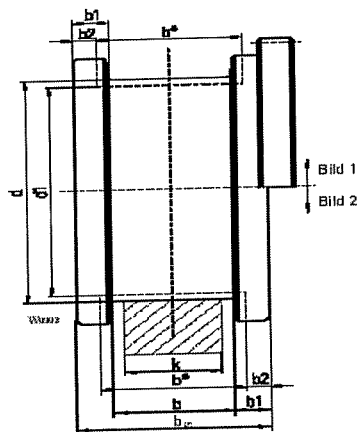


Fig.	d	Nominal value				Limit for wear			
		bLR	b	k		b1	d1	b2	Max. play = b*-k
				min	max				
				(mm)					
1	100	80	50	40	45	15	95	5,5	13
		80	60	50	55	10		5,5	13
2	125	80	50	40	45	15	118,75	7	13
		80	60	50	55	10		7	11
2	160	85	52	40	45	16,5	152	8	16
		85	62	50	55	11,5		13,5	18
2	200	100	54	40	45	23	190	10,5	18
		100	64	50	55	18		10,5	18
		100	74	60	65	13		10,5	14
2	315	115	54	40	45	30,5 (29)	300	13,5	18
		115	64	50	55	25,5 (24)		13,5	18
		115	74	60	65	20,5 (19)		13,5	18
2	400	118,5	65	50	55	27,5 (26)	385	16	20
		118,5	75	60	65	22,5 (21)		16	20
		118,5	85	70	75	17,5 (16)		16,5	11,5

If any one of the limits for wear d1, b2 (b*-k) is attained, the part must be replaced.

() for machined faces

wheel	SR No	Actual For d	Remarks	Actual For b	Remarks
End carriage wheels	1			50.00 mm	OK
	2			50.00	OK
	3			50.00	OK
	4			50.00	OK
	5				
	6				
	7				
	8				
	9				
	10				
	11				
	12				
	13				
	14				
	15				
	16				
CT Wheel	SR No	Actual For d	Remarks	Actual For b	Remarks
	1	79.00 mm	OK		
	2	79.00.	OK		
	3	79.80	OK		
	4	79.91	OK		



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TEL PHONE: 27470589 / 27460224 TELEFAX : 27475707

E-MAIL : spares.pune@sparkline.co.in

ELECTRICAL TEST REPORT

CUSTOMER NAME	GE John F. Welch Banglor.				
PRODUCT DESCRIPTION	BOT Crane				
CRANE NO	C.NO - E1416				
HOIST TYPE & SR NO	SH 3008-20 412 L2 1914186				
CAPACITY	3000kg				
LM NO/CO NO					DATE: 23/03/2018

TYPE	DESCRIPTION	PHASE	RATED	PHASE	MEASURED
					NO LOAD
H O I S T M O T O R	UP SLOW	R	3.8	R	4.1 A
		Y		Y	3.9
		B		B	3.8
	DOWN SLOW	R	7.0 A	R	4.0
		Y		Y	3.9
		B		B	3.9
	UP FAST	R		R	3.8
		Y		Y	3.8
		B		B	3.9
	DOWN FAST	R		R	3.9
		Y		Y	3.8
		B		B	3.8
C T M O T O R	RIGHT SLOW	R		R	6.8
		Y		Y	0.7
		B		B	0.7
	LEFT SLOW	R	12/1.9 A	R	0.8
		Y		Y	0.7
		B		B	0.7
	RIGHT FAST	R		R	0.7
		Y		Y	0.8
		B		B	0.7
	LEFT FAST	R		R	0.7
		Y		Y	0.8
		B		B	0.7
L T M O T O R	FORWARD SLOW	R	1.27	R	0.4
		Y		Y	0.4
		B		B	0.5
	REVERSE SLOW	R	0.73 A	R	0.4
		Y		Y	0.4
		B		B	0.5
	FORWARD FAST	R		R	0.5
		Y		Y	0.4
		B		B	0.4
	REVERSE FAST	R		R	0.5
		Y		Y	0.4
		B		B	0.4

Contact Person Name

RITURAT

Checked by

Avinch Samdhi

Signature

RL

Signature

[Signature]

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Customer Name: GE. John F. Welch Banglor

Hoist Type:	SH 3008-20 4/2 L2	Sr. no.:	191486
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Crane Type : EOT Crane

Crane No: C.No - E1416

Location: Phase 1 B2 Lab

Date : 23/03/2018

Contact Person : Mr. Prakash Shetty

mobile. 9591272057

SPARES PARTS LIST

[illegible]

Contact Person Name & Signature

RITURAS

Checked by & Signature:

Mr. Avinash Pawar

J. Langford