

Hours of Operation

Description	Hours	0	3,660
Crane	3,657.0		
Boom Hoist	1,860.0		
Main Hoist	82.0		
Aux Hoist	68.0		
Whip Hoist	323.0		
Swing	512.0		
Fastline 1 Hoist	200.0		
Fastline 2 Hoist	218.0		
Left Load Control Tugger	112.0		
Right Load Control Tugger	181.0		
Main Block Tugger	866.0		
Aux Block Tugger	3,520.0		
Load Control Lift	0.0		
Tie Back #1 Tugger	7.0		
Tie Back #2 Tugger	4.0		

Load on Main Hook (TONS)

Description	Hours	0	80
120 To 400	74.1		
400 To 800	15.1		
800 To 1,200	3.4		
1,200 To 1,600	0.2		
1,600 To 2,000	0.5		
2,000 To 2,400	1.8		
2,400 To 2,800	3.5		
2,800 To 3,200	0.3		
3,200 To 3,600	0.1		
3,600 To 4,000	0.2		
4,000 To 4,400	0.1		
4,400 and Greater	0.1		

Load on Aux Hook (TONS)

Description	Hours	0	70
30 To 100	61.9		
100 To 200	21.3		
200 To 300	41.2		
300 To 400	18.2		
400 To 500	7.2		
500 To 600	2.3		
600 To 700	5.2		
700 To 800	0.5		
800 To 900	1.0		
900 To 1,000	1.6		
1,000 To 1,100	0.5		
1,100 and Greater	6.9		

Load on Whip Hook (TONS)

Description	Hours	0	150
7 To 24	141.5		
24 To 48	63.3		
48 To 72	44.0		
72 To 96	46.3		
96 To 120	8.2		
120 To 144	0.5		
144 To 168	0.1		
168 To 192	0.9		
192 To 216	5.3		
216 To 240	0.1		
240 To 264	0.0		
264 and Greater	0.1		

Hours at Boom Angle

Description	Hours	0	3,090
Below Zero Degrees	674.3		
Zero to 10 Degrees	1,862.7		
10 to 20 Degrees	13.0		
20 to 30 Degrees	49.1		
30 to 40 Degrees	107.5		
40 to 50 Degrees	637.3		
50 to 60 Degrees	3,082.3		
60 to 70 Degrees	1,774.9		
70 to 80 Degrees	224.7		
Above 80 Degrees	1,342.7		

Hours at Swing Angle

Description	Hours	0	5,830
Zero to 45 Degrees	5,823.2		
45 to 90 Degrees	602.5		
90 to 135 Degrees	163.5		
135 to 180 Degrees	773.9		
180 to 225 Degrees	429.3		
225 to 270 Degrees	237.5		
270 to 315 Degrees	174.4		
315 to 360 Degrees	1,475.4		

Hours at Wind Speed (FT/SEC)

Description	Hours	0	9,770
0 to 10	9,767.9		
10 to 20	0.1		
20 to 30	0.0		
30 to 40	0.0		
40 to 50	0.0		
Above 50	0.0		

Main Hook Travel (FT) at Load (TONS)

Description	Travel	0	610
360 To 1,200	608.6		
1,200 To 2,400	38.2		
2,400 To 3,600	52.3		
3,600 To 4,800	6.3		
4,800 To 6,000	0.0		
6,000 To 7,200	0.0		
7,200 To 8,400	0.0		
8,400 To 9,600	0.0		
9,600 To 10,800	0.0		
10,800 To 12,000	0.0		
12,000 To 13,200	0.0		
13,200 and Greater	0.0		

Aux Hook Travel (FT) at Load (TONS)

Description	Travel	0	940
75 To 250	933.8		
250 To 500	704.3		
500 To 750	116.6		
750 To 1,000	7.3		
1,000 To 1,250	3.3		
1,250 To 1,500	0.0		
1,500 To 1,750	0.0		
1,750 To 2,000	0.0		
2,000 To 2,250	0.0		
2,250 To 2,500	0.0		
2,500 To 2,750	0.0		
2,750 and Greater	0.0		

Whip Hook Travel (FT) at Load (TONS)

Description	Travel	0	13,390
18 To 60	12,132.8		
60 To 120	13,389.3		
120 To 180	31.0		
180 To 240	7.6		
240 To 300	1.8		
300 To 360	0.3		
360 To 420	0.0		
420 To 480	0.0		
480 To 540	0.0		
540 To 600	0.0		
600 To 660	0.0		
660 and Greater	0.0		

Boom Hoist Motor Torque

Description	Hours	0	10
0 to 10 Percent	0.0		
10 to 20 Percent	0.0		
20 to 30 Percent	0.0		
30 to 40 Percent	0.0		
40 to 50 Percent	0.0		
50 to 60 Percent	0.0		
60 to 70 Percent	0.0		
70 to 80 Percent	0.0		
80 to 90 Percent	0.0		
90 to 100 Percent	0.0		
100 to 125 Percent	0.0		
Over 125 Percent	0.0		

Swing Motor Torque

Description	Hours	0	140
0 to 10 Percent	136.6		
10 to 20 Percent	15.3		
20 to 30 Percent	0.6		
30 to 40 Percent	0.0		
40 to 50 Percent	0.0		
50 to 60 Percent	0.0		
60 to 70 Percent	0.0		
70 to 80 Percent	0.0		
80 to 90 Percent	0.0		
90 to 100 Percent	0.0		
100 to 125 Percent	0.0		
Over 125 Percent	0.0		

Main Hoist Motor Torque

Description	Hours	0	200
0 to 10 Percent	190.5		
10 to 20 Percent	37.1		
20 to 30 Percent	4.2		
30 to 40 Percent	0.6		
40 to 50 Percent	0.2		
50 to 60 Percent	0.2		
60 to 70 Percent	0.0		
70 to 80 Percent	0.0		
80 to 90 Percent	0.0		
90 to 100 Percent	0.0		
100 to 125 Percent	0.0		
Over 125 Percent	0.0		

Aux Hoist Motor Torque

Description	Hours	0	200
0 to 10 Percent	190.5		
10 to 20 Percent	37.1		
20 to 30 Percent	4.2		
30 to 40 Percent	0.6		
40 to 50 Percent	0.2		
50 to 60 Percent	0.2		
60 to 70 Percent	0.0		
70 to 80 Percent	0.0		
80 to 90 Percent	0.0		
90 to 100 Percent	0.0		
100 to 125 Percent	0.0		
Over 125 Percent	0.0		

Whip Hoist Motor Torque

Description	Hours	0	200
0 to 10 Percent	190.6		
10 to 20 Percent	37.1		
20 to 30 Percent	4.2		
30 to 40 Percent	0.6		
40 to 50 Percent	0.2		
50 to 60 Percent	0.2		
60 to 70 Percent	0.0		
70 to 80 Percent	0.0		
80 to 90 Percent	0.0		
90 to 100 Percent	0.0		
100 to 125 Percent	0.0		
Over 125 Percent	0.0		

Heel Angle

Description	Hours	0	8,140
Below -10 Degrees	1,380.5		
-10 to -5 Degrees	0.0		
-5 to -3 Degrees	0.0		
-3 to -1 Degrees	1.6		
-1 to 1 Degrees	8,135.4		
1 to 3 Degrees	250.1		
3 to 5 Degrees	0.0		
5 to 10 Degrees	0.0		
Above 10 Degrees	0.0		

Cross Angle

Description	Hours	0	9,770
Below -10 Degrees	0.0		
-10 to -5 Degrees	0.0		
-5 to -3 Degrees	0.0		
-3 to -1 Degrees	0.0		
-1 to 1 Degrees	9,768.0		
1 to 3 Degrees	0.0		
3 to 5 Degrees	0.0		
5 to 10 Degrees	0.0		
Above 10 Degrees	0.0		

Boom Hoist Drum Speed (RPM)

Description	Hours	0	50
Lower Above 30 RPM	0.0		
Lower 25 to 30 RPM	25.0		
Lower 20 to 25 RPM	41.5		
Lower 15 to 20 RPM	12.4		
Lower 10 to 15 RPM	36.6		
Lower 5 to 10 RPM	29.4		
Lower 0 to 5 RPM	17.3		
Raise 0 to 5 RPM	15.4		
Raise 5 to 10 RPM	23.2		
Raise 10 to 15 RPM	36.7		
Raise 15 to 20 RPM	11.6		
Raise 20 to 25 RPM	39.3		
Raise 25 to 30 RPM	28.4		
Raise Above 30 RPM	0.0		

Main Hoist Drum Speed (RPM)

Description	Hours	0	10
Lower Above 30 RPM	2.4		
Lower 25 to 30 RPM	0.8		
Lower 20 to 25 RPM	2.4		
Lower 15 to 20 RPM	0.7		
Lower 10 to 15 RPM	2.3		
Lower 5 to 10 RPM	5.7		
Lower 0 to 5 RPM	2.2		
Raise 0 to 5 RPM	2.3		
Raise 5 to 10 RPM	6.4		
Raise 10 to 15 RPM	1.9		
Raise 15 to 20 RPM	1.4		
Raise 20 to 25 RPM	2.1		
Raise 25 to 30 RPM	0.8		
Raise Above 30 RPM	2.4		

Aux Hoist Drum Speed (RPM)

Description	Hours	0	10
Lower Above 30 RPM	2.9		
Lower 25 to 30 RPM	1.2		
Lower 20 to 25 RPM	4.5		
Lower 15 to 20 RPM	1.5		
Lower 10 to 15 RPM	3.5		
Lower 5 to 10 RPM	3.9		
Lower 0 to 5 RPM	7.4		
Raise 0 to 5 RPM	6.9		
Raise 5 to 10 RPM	6.0		
Raise 10 to 15 RPM	2.3		
Raise 15 to 20 RPM	1.4		
Raise 20 to 25 RPM	2.9		
Raise 25 to 30 RPM	1.4		
Raise Above 30 RPM	2.9		

Whip Hoist Drum Speed (RPM)

Description	Hours	0	50
Lower Above 30 RPM	2.7		
Lower 25 to 30 RPM	1.2		
Lower 20 to 25 RPM	5.7		
Lower 15 to 20 RPM	4.2		
Lower 10 to 15 RPM	18.2		
Lower 5 to 10 RPM	37.5		
Lower 0 to 5 RPM	44.3		
Raise 0 to 5 RPM	37.6		
Raise 5 to 10 RPM	42.6		
Raise 10 to 15 RPM	8.1		
Raise 15 to 20 RPM	2.1		
Raise 20 to 25 RPM	3.3		
Raise 25 to 30 RPM	1.6		
Raise Above 30 RPM	5.2		

Swing Rotation Speed (RPM)

Description	Hours	0	130
Left Above .6 RPM	0.0		
Left .5 to .6 RPM	0.0		
Left .4 to .5 RPM	0.0		
Left .3 to .4 RPM	3.4		
Left .2 to .3 RPM	5.1		
Left .1 to .2 RPM	119.6		
Left 0 to .1 RPM	0.0		
Right 0 to .1 RPM	124.9		
Right .1 to .2 RPM	5.1		
Right .2 to .3 RPM	0.4		
Right .3 to .4 RPM	0.0		
Right .4 to .5 RPM	0.0		
Right .5 to .6 RPM	0.0		
Right Above .6 RPM	0.0		