

Hours of Operation

Description	Hours	0	24
Crane	18.0		
Boom Hoist	2.0		
Main Hoist	0.0		
Aux Hoist	2.0		
Whip Hoist	1.0		
Swing	2.0		
Fastline 1 Hoist	1.0		
Fastline 2 Hoist	0.0		
Left Load Control Tugger	1.0		
Right Load Control Tugger	1.0		
Main Block Tugger	0.0		
Aux Block Tugger	18.0		
Load Control Lift	0.0		
Tie Back #1 Tugger	0.0		
Tie Back #2 Tugger	0.0		

Load on Main Hook (TONS)

Description	Hours	0	24
120 To 400	0.0		
400 To 800	0.0		
800 To 1,200	0.0		
1,200 To 1,600	0.0		
1,600 To 2,000	0.0		
2,000 To 2,400	0.0		
2,400 To 2,800	0.0		
2,800 To 3,200	0.0		
3,200 To 3,600	0.0		
3,600 To 4,000	0.0		
4,000 To 4,400	0.0		
4,400 and Greater	0.0		

Load on Aux Hook (TONS)

Description	Hours	0	24
30 To 100	0.0		
100 To 200	0.0		
200 To 300	0.0		
300 To 400	0.0		
400 To 500	0.0		
500 To 600	0.0		
600 To 700	0.0		
700 To 800	0.0		
800 To 900	0.0		
900 To 1,000	0.0		
1,000 To 1,100	0.0		
1,100 and Greater	0.0		

Load on Whip Hook (TONS)

Description	Hours	0	24
7 To 24	0.0		
24 To 48	0.0		
48 To 72	0.0		
72 To 96	0.0		
96 To 120	0.0		
120 To 144	0.0		
144 To 168	0.0		
168 To 192	0.0		
192 To 216	0.0		
216 To 240	0.0		
240 To 264	0.0		
264 and Greater	0.0		

Hours at Boom Angle

Description	Hours	0	24
Below Zero Degrees	0.0		
Zero to 10 Degrees	0.0		
10 to 20 Degrees	0.0		
20 to 30 Degrees	4.7		
30 to 40 Degrees	0.3		
40 to 50 Degrees	0.5		
50 to 60 Degrees	15.9		
60 to 70 Degrees	2.6		
70 to 80 Degrees	0.0		
Above 80 Degrees	0.0		

Hours at Swing Angle

Description	Hours	0	24
Zero to 45 Degrees	10.0		
45 to 90 Degrees	6.2		
90 to 135 Degrees	0.5		
135 to 180 Degrees	0.2		
180 to 225 Degrees	0.1		
225 to 270 Degrees	0.7		
270 to 315 Degrees	1.1		
315 to 360 Degrees	5.2		

Hours at Wind Speed (FT/SEC)

Description	Hours	0	24
0 to 10	24.0		
10 to 20	0.0		
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	10
360 To 1,200	0.0		
1,200 To 2,400	0.0		
2,400 To 3,600	0.0		
3,600 To 4,800	0.0		
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	90
75 To 250	85.8		
250 To 500	64.3		
500 To 750	0.0		
750 To 1,000	0.0		
1,000 To 1,250	0.0		
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	10
18 To 60	0.0		
60 To 120	0.0		
120 To 180	0.0		
180 To 240	0.0		
240 To 300	0.0		
300 To 360	0.0		
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	24
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				24
0 to 10 Percent	0.8					
10 to 20 Percent	0.1					
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					



Main Hoist Motor Torque

Description	Hours	0				24
0 to 10 Percent	1.0					
10 to 20 Percent	0.7					
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					



Aux Hoist Motor Torque

Description	Hours	0				24
0 to 10 Percent	1.0					
10 to 20 Percent	0.7					
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					


Whip Hoist Motor Torque

Description	Hours	0	24
0 to 10 Percent	1.0		
10 to 20 Percent	0.7		
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		

Heel Angle

Description	Hours	0	24
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	18.2		
1 to 3 Degrees	5.8		
3 to 5 Degrees	0.0		
5 to 10 Degrees	0.0		
Above 10 Degrees	0.0		

Cross Angle

Description	Hours	0	24
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	24.0		
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	24
Lower Above 30 RPM	0.0		
Lower 25 to 30 RPM	0.0		
Lower 20 to 25 RPM	0.1		
Lower 15 to 20 RPM	0.0		
Lower 10 to 15 RPM	0.1		
Lower 5 to 10 RPM	0.8		
Lower 0 to 5 RPM	0.1		
Raise 0 to 5 RPM	0.0		
Raise 5 to 10 RPM	0.1		
Raise 10 to 15 RPM	0.1		
Raise 15 to 20 RPM	0.1		
Raise 20 to 25 RPM	0.2		
Raise 25 to 30 RPM	0.1		
Raise Above 30 RPM	0.0		

Main Hoist Drum Speed (RPM)

Description	Hours	0	24
Lower Above 30 RPM	0.0		
Lower 25 to 30 RPM	0.0		
Lower 20 to 25 RPM	0.0		
Lower 15 to 20 RPM	0.0		
Lower 10 to 15 RPM	0.0		
Lower 5 to 10 RPM	0.0		
Lower 0 to 5 RPM	0.0		
Raise 0 to 5 RPM	0.0		
Raise 5 to 10 RPM	0.0		
Raise 10 to 15 RPM	0.0		
Raise 15 to 20 RPM	0.0		
Raise 20 to 25 RPM	0.0		
Raise 25 to 30 RPM	0.0		
Raise Above 30 RPM	0.0		

Aux Hoist Drum Speed (RPM)

Description	Hours	0	24
Lower Above 30 RPM	0.2		
Lower 25 to 30 RPM	0.0		
Lower 20 to 25 RPM	0.1		
Lower 15 to 20 RPM	0.1		
Lower 10 to 15 RPM	0.1		
Lower 5 to 10 RPM	0.1		
Lower 0 to 5 RPM	0.1		
Raise 0 to 5 RPM	0.5		
Raise 5 to 10 RPM	0.4		
Raise 10 to 15 RPM	0.1		
Raise 15 to 20 RPM	0.1		
Raise 20 to 25 RPM	0.1		
Raise 25 to 30 RPM	0.1		
Raise Above 30 RPM	0.1		

Whip Hoist Drum Speed (RPM)

Description	Hours	0	24
Lower Above 30 RPM	0.0		
Lower 25 to 30 RPM	0.0		
Lower 20 to 25 RPM	0.0		
Lower 15 to 20 RPM	0.0		
Lower 10 to 15 RPM	0.1		
Lower 5 to 10 RPM	0.1		
Lower 0 to 5 RPM	0.0		
Raise 0 to 5 RPM	0.0		
Raise 5 to 10 RPM	0.0		
Raise 10 to 15 RPM	0.0		
Raise 15 to 20 RPM	0.0		
Raise 20 to 25 RPM	0.0		
Raise 25 to 30 RPM	0.0		
Raise Above 30 RPM	0.1		

Swing Rotation Speed (RPM)

Description	Hours	0	24
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	0.0		
Left .2 to .3 RPM	0.0		
Left .1 to .2 RPM	0.3		
Left 0 to .1 RPM	0.0		
Right 0 to .1 RPM	0.5		
Right .1 to .2 RPM	0.0		
Right .2 to .3 RPM	0.0		
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		