

1000 HOUR ROPE/CABLE LUBE SAV 42-47

CRANE # _____ DATE: _____ INSPECTOR(S) : _____
CRANE HRS _____ HOIST HRS _____
Brand/type of rope lube used: _____

TROLLEY ROPES/CABLES

- ____ 1.1 INSPECT ALL SHEAVES FOR WEAR IN THE GROOVE OF THE SHEAVE USING SHEAVE GAUGE. ALSO CHECK SHEAVES FOR BEARING WEAR.
- a. 4 SHEAVES ON TROLLEY
 - b. 4 SHEAVES AT BACK REACH
 - c. 4 SHEAVES AT BOOM TIP
 - D. 6 SHEAVES AT ROPE TIGHTENING STATION
- ____ 1.2 INSPECT and MEASURE (using caliper) TROLLEY ROPES:
ON TROLLEY WHILE AT BACKREACH:
WATERSIDE ROPE _____ LANDSIDE ROPE _____
ON TROLLEY WHILE AT BOOM TIP:
WATERSIDE ROPE _____ LANDSIDE ROPE _____
- ____ 1.3 LUBE ROPES ON DRUM WITH ROPE LUBE IN PUMP UP SPRAYER.
RUN TROLLEY FROM BOOM TIP TO BACKREACH WHILE DOING SO. SPRAY ONLY ENOUGH TO WET ROPE, CLEAN UP EXCESS.
- ____ 1.4 POSITIONED ON BOOM TIP AND THEN BACKREACH, LUBE WORKING RANGE OF THE TWO ROPES WITH ROPE LUBE IN PUMP UP SPRAYER. SPRAY ONLY ENOUGH TO WET ROPE, CLEAN UP EXCESS
- ____ 1.5 INSPECT DRUM, TORQUE DRUM CLAMP BOLTS
- ____ 1.6 CONDITION OF CABLES: _____
- ____ 1.7 CONDITION OF SHEAVES: _____

CANTENARY ROPES/CABLES

- ____ 1.1 INSPECT ALL SHEAVES FOR WEAR IN THE GROOVE OF THE SHEAVE USING SHEAVE GAUGE. ALSO CHECK SHEAVES FOR BEARING WEAR.
- a. SHEAVES ON CATENARY TROLLIES
 - b. SHEAVES AT BACK REACH
 - c. SHEAVES AT BOOM AND MAIN GIRDER
- ____ 1.2 INSPECT and MEASURE (using caliper) CATENARY ROPES FROM END TO END.
UR long _____ DR Long _____ UR short front _____
DR short front _____ UR short rear _____ DR short rear _____
- ____ 1.3 LUBE ROPES WITH ROPE LUBE IN PUMP UP SPRAYER SPRAY ONLY ENOUGH TO WET ROPE, CLEAN UP EXCESS
- ____ 1.4 INSPECT DEAD END LINKS, PINS, AND COTTER PINS
- ____ 1.5 CONDITION OF CABLES: _____
- ____ 1.6 CONDITION OF SHEAVES: _____

BOOM ROPES/CABLES

- ____ 1.1 INSPECT ALL SHEAVES FOR WEAR IN THE GROOVE OF THE SHEAVE USING SHEAVE GAUGE. ALSO CHECK SHEAVES FOR BEARING WEAR.
- a. 10 SHEAVES AT APEX
 - b. 6 SHEAVES AT BOOM TIP
- ____ 1.2 INSPECT and MEASURE (using caliper) BOOM ROPES ON DRUM AND AT APEX.
UR rope _____, _____ DR rope _____, _____

- 1.3

LUBE ROPES ON DRUM AND AT APEX WHILE BOOMING UP/DOWN WITH ROPE LUBE IN PUMP UP SPRAYER. SPRAY ONLY ENOUGH TO WET ROPE, CLEAN UP EXCESS
- 1.4

INSPECT DRUM, TORQUE DRUM CLAMP BOLTS
- 1.5

INSPECT DEAD END LINKS, PINS, AND LUBE TURNBUCKLE
- 1.6

CONDITION OF CABLES:
- 1.7

CONDITION OF SHEAVES:

HOIST ROPES/CABLES

- 1.1

INSPECT ALL SHEAVES FOR WEAR IN THE GROOVE OF THE SHEAVE USING SHEAVE GAUGE. ALSO CHECK SHEAVES FOR BEARING WEAR.
- a.

8 SHEAVES ON TROLLEY
- b.

8 SHEAVES AT BACK REACH
- c.

4 SHEAVES AT BOOM TIP
- 1.2

INSPECT and MEASURE (using caliper) HOIST ROPES IN MAXIMUM WEAR AREAS.
- ON TROLLEY WHILE TROLLEY IS OVER WS SILLBEAM:
- UR outsideUR InsideDR InsideDR Outside
- IN BACKREACH WHEN SPREADER BAR IS AT CABLE REEL LEVEL:
- UR outsideUR InsideDR InsideDR Outside
- 1.3

LUBE ROPES ON DRUMS AND ON BOOM FROM DEAD END TO BOOM TIP WITH ROPE LUBE IN PUMP UP SPRAYER. SPRAY ONLY ENOUGH TO WET ROPE, CLEAN UP EXCESS
- 1.4

LUBE WORKING RANGE OF ROPES WITH ROPE LUBE IN PUMP UP SPRAYER ON TROLLEY. SPRAY ONLY ENOUGH TO WET ROPE, CLEAN UP EXCESS
- 1.5

INSPECT DRUMS, TORQUE DRUM CLAMP BOLTS
- 1.6

INSPECT DEAD END LINKS, PINS, AND COTTER PINS
- 1.7

CONDITION OF CABLES:
- 1.8

CONDITION OF SHEAVES:

TOP OFF ANY ROPE LUBRICATORS ON THE CRANE DURING THIS PM.

WHEN FINISHED, OPERATE ALL FUNCTIONS OF THE CRANE ESPECIALLY HOIST AND TROLLEY TO DISTRIBUTE LUBE. CLEAN UP EXCESS WHEN FINISHED.
REPORT BROKEN OR DAMAGED CABLES TO FOREMAN WHERE THE WIRES ARE BROKEN, AND ON WHICH CABLE.

NOTES:

WIRE ROPE WEAR LIMITS

WIRE ROPE	rope size ("/mm)	wear limit 7% ("/mm)
Catenary	5/8"/16mm	0.58"/14.88mm
Trolley Rope	1.024"/26mm	0.945"/24.18mm
Boom Hoist Rope	1 1/4"/32mm	1.16"/29.76mm

Hoist Rope 1 1/4"/32mm 1.16"/29.76mm

WIRE ROPE MAXIMUM BROKEN WIRES
Rope Construction 6 x 36 Ordinary lay (Load bearing wires)
Maximum Number of Broken Wires,
 7 breaks in a length (6 x Diameter)
 14 breaks in a length (30 x Diameter)