

Service News

Suggestion of Maintenance
for Safety and Relief
For the safe use of Sekigahara Product

SSN-019

[SUBJECT] Crack Damage of Provision Crane Winch Drum

**Accident
Record**

1) Applied model:

Provision cranes EEE-,EEO-,EEEC-,EEOC- type

2) Date of manufacture:

From 2008 ~ (Reduction gears in old model, Refer Chart 1)

3) Outline of accident

Slippery happened between hoisting drum and motor shaft. Hoisting operation became impossible.

4) Cause

There is damage on boss of drum (output shaft side of motor) and it slipped. Due to material aging, rust progressed and cracks happened on main material.

Photo 1 (Overview of the drum)

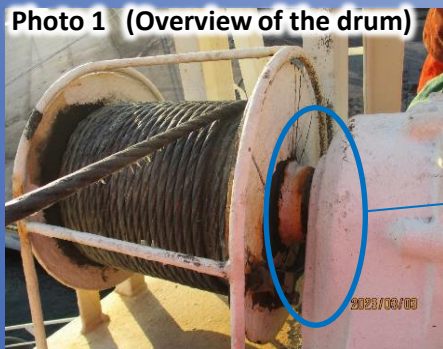


Photo2 (Boss)

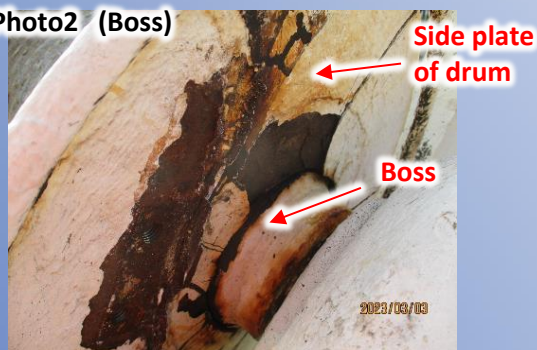
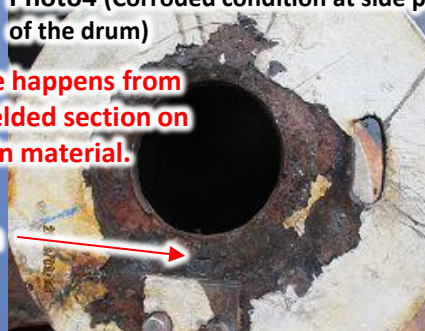


Photo3 (Damage from main material of side plate))



Photo4 (Corroded condition at side plate of the drum)



5) Regular Maintenance

☞ Please carry out inspection by following "Inspection Procedure of Crack on Main Material of Hoisting and Luffing Winch Drums." Depending on the inspection result, please take appropriate treatment. For other inspection items, refer "Regular Maintenance and Renewal Recommended Spare Parts List" in the handling manual of the crane.

⚠ If crack happens on the drum, there is a possibility of danger of falling of jib or drop of lifting cargo. If any abnormality is found, stop using the crane and send a repair request to the maker. In case of 10 years is passed, pay special attention.



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6) Inspection Procedure

Inspection Procedure of Crack on Main Material and Luffing Winch Draums (Before operation)

	Procedure	Check point	Criteria
1	Check peeling off of paint around welding of drum (Below drawing A and B) In case of no crack or no peeling off of paint.	Check visually if painting on drum shaft side, boss side and welded section A & B is not peeled off.	No crack No peeling off of paint ↓ No problem for use
2	Check peeling off of paint around welding of drum (Below drawing A and B) In case of no crack or no peeling off of paint, however, there is mark of repairing of paint.	Peel off the painting and carry out PT Test (Penetrant Test (Non Destructive Test)) (In case main material is not cracked, re-use after repainting.)	No crack on main material ↓ No problem for use Crack on main material ↓ Stop using and repair request to the maker
3	Check peeling off of paint around welding of drum (Below drawing A and B) In case there is crack or peeling off of paint.	Peel off the paint around it and carry out PT Test (Penetrant Test (Non Destructive Test)) (In case main material is not cracked, re-use after repainting.)	No crack on main material ↓ No problem for use Crack on main material ↓ Stop using and repair request to the maker

* In case abnormality such as cracks are found, stop using immediately and send repair request to the maker.

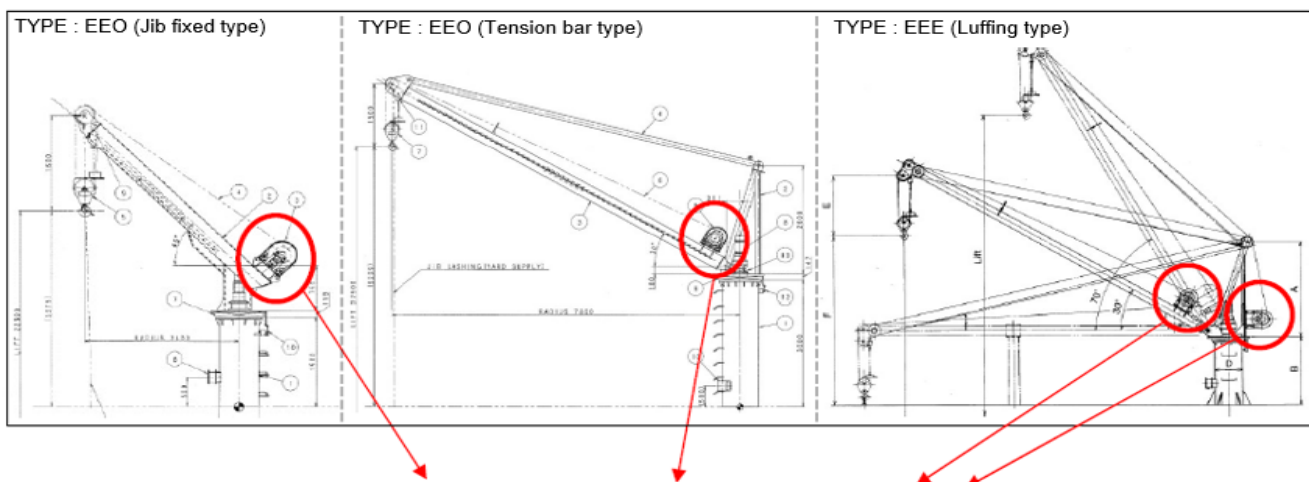


Chart 1

