Kobelco International (S) Co., Pte. Ltd

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Machine Assessment Report

Ref: KMISR20250328-06

Date: 23 Jul. 2025
Machine model: CKS1350
Serial No: GN04-03060
Engine No: Hino P11CVH10165
Hour Meter: 35,646.2
YOM: 2013
Location: Singapore

Crane Configuration: Standard crane with Auxiliary sheave
Conduct crane inspection finding for following above mention crane model CKS1350, Serial No GN04-03060. The present crane has an equipped with standard crane configuration main boom 24.4m with Aauxiliary sheave, 70t main hook 4-part lines and auxiliary 13.5t ball hook 1-part line.

Base Machine



Operator Cabin



Engine



Hydraulic Components



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Gantry Sheave & Backstop






Winch Drum





Lower Frame






Crawler Track







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Refurbishment Service Tasks

1. Engine and fuel system Maintenance

- Carefully remove the engine from the equipment.
- Perform thorough cleaning and inspection of engine components.
- Carry out necessary service and maintenance tasks to ensure optimal performance.
- Service and clean all fuel lines to remove contaminants.
- Flush the fuel lines and fuel tank to eliminate residue and prevent blockages.
- Inspect and service the fuel supply pump for reliable fuel delivery.
- Remove the radiator for in-depth cleaning and inspection.
- Flush the radiator to clear out any debris or buildup.
- Refurbish Radiator Assy and change rubber hoses.
- Replacement of fan belts
- Replacement of thermostat
- Replacement of all lubricants (Engine oil and coolants)

2. Hydraulic System Refurbishment

- Disassemble and refurbish the hydraulic main pumps to address wear and tear.
- Recalibrate the pumps for precise operation.
- Conduct comprehensive pressure testing to verify performance.
- Replace hydraulic pump.
- Replace oil level gauge
- Replacement of all filters
- Replace swivel Joint Seal Kit
- Replace counterweight Seal Kit
- Replace of hyd. pipe for main pump
- Replacement of all lubricants (hydraulic oil, gear oil)

3. Electrical system Refurbishment

- Replacement of Limit switch bypass connector.
- Replacement of base boom harness.
- Replacement of working light
- Replacement of microphone
- Replacement of monitor safety
- Replacement of pressure sensor
- Replacement of GITC device with 4G type (KCROSS)

4. Attachment maintenance

- Boom wire rope replacement
- Replacement of bearing for Spreader sheave
- Replacement of bearing for idler sheave
- Replacement of bearing for top boom sheave
- Refurbished spreader pin
- Replace gantry cylinder Seal Kit

5. Lower machinery maintenance

- Replacement of floating seal for propel
- Refurbished Track shoe lock pin cylinder
- Dismantle & rework of head cap for track shoe lock pin cylinder
- Replace track shoe outrigger cylinder seal kit

6. Painting and Finishing

- Prepare surfaces by cleaning and removing any old paint or rust.
- Apply a fresh coat of paint.
- Replacement of top and front wiper blade

Conclusion & Comments

The base machine has been thoroughly inspected, cleaned, and maintained, presenting a clean and tidy appearance. Key observations and assessments are as follows:

1. Operator Controls

- The crane operator control levers exhibit smooth and responsive operation.
- Electrical switches and controls function reliably with no issues detected.

2. Safety Devices

- The moment limiter safety device is in excellent working condition, providing reliable protection.

3. Performance of Components

- The winches, including the front drum, rear drum, and boom operation, perform within the manufacturer's specifications.
- Slewing operations and propel travel are functioning normally.
- All drum wire ropes are properly wound and well-lubricated with grease to ensure durability and performance.

4. Electrical Systems

- The electrical cable reel harness is securely connected.
- All sensor detectors are properly installed and operational.

5. Lubrication and Mechanical Components

- Movable components, including the slewing bearing, foot pin, and spreader sheaves, have been lubricated to ensure smooth operation.
- The crawler tracks are tensioned correctly for optimal performance.

6. Engine and General Condition

- The engine is clean and tidy with no oil leaks observed.
- All major components are in good working order, contributing to the overall cleanliness and functionality of the machine.

7. Operational Performance

- Performance testing under operational conditions indicates the machine is functioning satisfactorily.
- No major damage or defects were identified during the inspection.



Reported by So Yamanobe
KISCO service engineer

END