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## Inspection Checklist for 2015 Caterpillar D6K2 LGP



### Inspection Summary

This inspection was performed by a professional mechanic specializing in bulldozer equipment. The following items were inspected and assessed based on their condition and functionality.

### Blade Assembly

- Blade Condition: 11-foot 6-way blade shows minor edge wear; cutting edge estimated at 70% life remaining. Replacement not immediately necessary but recommended within 400-500 hours.
- Hydraulic Blade Controls: Fully operational. Smooth articulation in all directions; no lag or hesitation noted.
- Blade Mounting Points: Tight and secure with no excessive wear or play.

### Engine and Powertrain

- Engine Performance: Caterpillar engine starts smoothly and operates within normal parameters. No unusual noises, smoke, or vibrations detected.
- Engine Fluids: Oil, coolant, and other fluids topped off and free of contaminants. No leaks identified during inspection.
- Cooling System: Radiator and cooling fan functioning properly. No obstructions, leaks, or overheating noted during operation.

- Transmission: Hydrostatic transmission shifts smoothly across all gears. No abnormal noises or hesitation detected during field test.

### **Hydraulic System**

- Hydraulic Fluid Levels: Optimal, with no signs of contamination.

- Hydraulic Lines and Fittings: All lines inspected, no leaks or signs of wear observed. Fittings are secure and free of damage.

- Cylinders: Hydraulic cylinders are free of pitting or scratches. Seals are intact, with no leaks detected.

### **Undercarriage**

- Tracks and Pads: 30-inch pads show 70% life remaining. Tracks aligned and tensioned correctly.

- Rollers and Sprockets: Rollers and sprockets are in good condition with no excessive wear or damage noted.

- Idlers: Free of cracks or bends; operating within manufacturer specifications.

- Overall Undercarriage Assessment: Good condition with minor wear consistent with hours of use.

### **Cab and Operator Station**

- Cab Structure: Fully enclosed cab with heat and air conditioning. No cracks or damage to glass; rear window guard is intact.

- HVAC System: Both heat and air conditioning systems tested and functioning properly.

- Operator Seat: Comfortable with minimal wear; all adjustments function properly.

- Controls and Displays: All operator controls and displays are responsive and functional.

- Visibility: Excellent visibility in all directions; no obstructions noted.

### **Chassis and Frame**

- Main Frame: Structurally sound with no visible cracks, welds, or damage.

- Sweeps: Securely mounted, providing adequate protection.

- Paint and Exterior: Minor cosmetic wear consistent with use; no rust or structural concerns.

### **Electrical System**

- Lighting: All exterior and interior lights tested and operational.

- Battery: Battery terminals are clean and connections are secure. Voltage levels are within specifications.

- Wiring Harness: Inspected for damage and wear; no issues detected.

### **Additional Notes**

Overall Assessment: The 2015 Caterpillar D6K2 LGP bulldozer is in good working condition, with all systems operational and minor wear consistent with machine hours.

Recommended Maintenance: Monitor blade cutting edge and undercarriage components for wear as hours increase. Plan for routine maintenance in accordance with manufacturer's guidelines.

### **Conclusion**

This bulldozer is field-ready and demonstrates reliability and operational efficiency. No immediate repairs or replacements are required. The overall condition is **\*\*good\*\*** with approximately 85% operational capacity remaining.