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Takeuchi tl12v2 operator' s manual

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****Safety Alert:**** Pay attention to important safety information that follows this symbol. Ignoring these warnings can lead to personal injury or death. Before operating this machine, you must thoroughly understand its proper use and safe operation. Ensure each operator is fully instructed on how to operate the equipment safely. Familiarize yourself with the contents of this manual and practice using the machine controls in a safe area before moving to a job site. Improper use, inspection, or maintenance can cause injury or death. Always read and understand the manual before performing any operation or maintenance. Store this manual near you, preferably on the machine itself. If it's lost or damaged, order a new one from your Takeuchi dealer immediately. When transferring ownership of this machine, make sure to pass the manual to the new owner. Takeuchi ensures its machines comply with local regulations and standards in the country of export. However, if your machine was purchased abroad, it may not meet safety standards for use in your country. Contact a Takeuchi dealer if you're unsure about compliance. ****Signal Words:**** Safety messages in this manual and on machine decals are marked with "DANGER", "WARNING", or "CAUTION". These words mean: * DANGER: High-risk hazard that can result in death or serious injury. * WARNING: Medium-risk hazard that could lead to death or serious injury if not avoided. * CAUTION: Low-risk hazard that could cause minor or moderate injury. ****Important:**** Be aware of situations that could damage the machine and its components. Although warnings cannot cover every possible contingency, you must exercise caution and follow normal safety procedures when operating the machine. This manual provides operation, inspection, and maintenance instructions for the machine, as well as essential safety guidelines. If you have any questions about the machine, contact a Takeuchi sales or service outlet. Machine Maintenance and Operation: Key Considerations The machine's serial numbers must be preserved; do not remove the plate with the machine name. Inspect and record the serial numbers of both the engine and machine below: • Machine number: • Engine number: Identify the front, rear, left, and right sides of the machine from the operator's seat, where the bucket is visible. ****Operational Guidelines**** Use this machine primarily for hauling, leveling, loading, and utilizing its hydrostatic drive system, tilt-up canopy, and cab with ROPS/FOPS. Ensure you have the engine emergency stop system, low engine noise, and exhaust emissions features activated. Electronic control of auxiliary hydraulic circuits can be accessed. ****Break-in Period**** When operating a new machine for the first 100 hours, follow these steps: 1. Warm up the engine and hydraulic oil sufficiently. 2. Avoid heavy loads and rapid operations. 3. Operate with about 80% maximum load capacity. 4. Sudden start-ups, accelerations, direction changes, or stops should be avoided unless necessary. ****Important Notes**** * The descriptions and diagrams in this manual may not apply to your specific machine model. * Consult the illustrations carefully, as numbers inside circles (e.g., 1) match those between parentheses (e.g., (1)). Control Panel and Operator Station The control panel contains various switches, buttons, and displays that aid in operating the machine. Notable features include a three-point seat belt (optional), instrument cluster, warning lamps, indicators, meters, multi-data display, and multifunction buttons. Operating Procedures & Maintenance Schedule for Heavy Machinery 1. Working Equipment, Operating Procedures, and Safety Precautions * Section 3: Covers equipment maintenance, operating procedures, and safety guidelines (pages 3-12 to 3-26) 2. Operations in Different Environments * Section 0-6: Lists operations possible with the machine (page 3-20) * Handling the machine in cold climates (pages 3-24 to 3-25) 3. Machine Transport and Storage * Securing the machine during transport, loading, and unloading (pages 4-1 to 4-4) 4. Regular Maintenance Schedule * General maintenance guidelines (page 5-2) * Service data, fuel, and lubricant requirements (pages 5-2 to 5-9) * List of consumables and tools needed for maintenance (pages 5-7 to 5-8) Routine Inspection Schedule: * Daily inspection every 10 hours (pages 5-15 to 5-19) * Every 50 hours: inspecting the fan belt, compressor belt, track, engine oil, hydraulic oil return filter, pilot line filter, and replenishing the coolant and engine oil (pages 5-24 to 5-26) 1. Every 100 hours, drain water from the tank, inspect fluid level, and replenish. 5-27 2. Inspect bucket stoppers (bolts/nuts) every 100 hours. 5-30 3. Clean water separator every 100 hours. 5-31 4. Replace travel motor gear oil after initial 250 hours only for new machines. 5-32 5. Inspect and adjust fan belt and compressor belt (AC) every 250 hours. 5-33 6. Replace air cleaner element, clean radiator fins, and oil cooler fins. 5-34 7. Clean condenser (AC), air filters (AC), inspect refrigerant level. 5-35 8. Every 500 hours, replace engine oil, oil filter, hydraulic oil return filter, pilot line filter, fuel filters, and adjust bucket stoppers. 5-39 9. Inspect coolant system every 1000 hours, clean engine cooling system every 1500 hours. 5-42 10. Replace oil separator element, inspect injector tip, EGR cooler, PCV valve, turbocharger. 5-47 11. Clean DPF, inspect EGR system and PCV valve when required. 5-47 12. Inspect bucket or attachment, replenish windshield washer fluid every 3000 hours. 5-48 13. Lubricate levers, inspect rubber tracks, replace receiver drier every year. 5-52 14. Tilting up the canopy (cab) during extended storage period. 5-53 15. Troubleshoot symptoms that are not malfunctions, inspect and replacing fuse when necessary. 6-1 to 6-8 Vehicle Error Code List, Engine Error Code List, Other Symptoms, Lowering Lift Arms, Towing, Damaged Cab or Canopy, Specifications, Safety Precautions, General Precautions, Cautions When Installing Attachments, Cautions When Operating Attachments, Hydraulic Quick-Hitch, Replacing Bucket or Attachment, Quick-Couplers, 4-Port Quick-Coupler, Selecting Lever Pattern, Switching Lever Pattern, Seat with Switch Function, Optional Equipment Mass When operating the machine, take care to prevent damage caused by hardened rubber parts, such as gaskets, which can lead to early wear or machine damage. If you plan to use the machine outside of the recommended temperature range, consult a sales representative or service technician. To avoid potential fires when working with fuel or operating machinery, follow these guidelines: never leave open flames unattended while handling fuel or oil; don't permit smoking in areas where flammable materials are present; and always ensure the location is well-ventilated during refueling. Additionally, refrain from removing the fuel cap or adding fuel while the engine is running or still hot, as this can increase the risk of fire. Ensure all leaks are addressed and clean up any spilled fuel or oil immediately. When operating with grinders or welders, relocate flammable materials to a safe distance. Avoid cutting or welding on pipes containing flammable fluids; instead, thoroughly clean them with non-flammable solvents before proceeding. Remove any trash or debris from the machine and ensure oily rags or other flammable materials are not stored nearby. When handling solvents and dry chemicals, follow manufacturer instructions and work in a well-ventilated area. Never use fuel for cleaning purposes; instead, opt for non-flammable solvents. When working with fuel, washing oil, or paint, open doors and windows to provide proper ventilation. Store all flammable fluids and materials in a safe, well-ventilated location. Regularly inspect electric systems for signs of wear or damage, as this can lead to electrical fires. Prevent pipe fires by ensuring hose and tube clamps, guards, and cushions are securely fastened. If not, vibrations or contact with other parts during operation may cause damage and potential fire hazards. Avoid performing DPF regeneration in areas surrounded by flammable materials, such as plants, trees, or dry grass, as the high-temperature exhaust gas emitted from the DPF poses a risk of fire. Remember to always maintain a charged fire extinguisher nearby, know how to use it effectively, and regularly clean and inspect your equipment to prevent fires. Ensure prompt attention to exhaust system maintenance to prevent fires. Regularly clean accumulated debris from engine belly pans, lower structures, and surrounding areas, as well as inspect for signs of diesel fuel or hydraulic system leakage. Use only nonflammable cleaning solutions and inspect the exhaust system daily for leaks or damage. Steam clean the engine and belly pan areas at least once a month, especially in severe conditions. Additionally, implement the following safety measures: * Regularly inspect machine systems to prevent fires from occurring * Ensure hand-held fire extinguishers are charged and easily accessible * Familiarize yourself with local fire regulations and manufacturer guidelines for your equipment * Keep essential contact information readily available in case of an emergency In the event of a machine fire, follow these steps: 1. Immediately lower working attachments to prevent further ignition 2. Switch off the engine and disconnect the fuel supply if possible 3. Use a fire extinguisher according to the manufacturer's instructions, if trained to do so 4. Evacuate the area and contact local emergency services or designated support teams 1. Be cautious when approaching a fire and prioritize your safety. 2. Before attempting to fight a fire, ensure it is small, not spreading rapidly, and that there's a clear escape route available. 3. Make sure you have received proper training on using fire extinguishing devices and are confident in their operation. • Do not touch parts with asbestos, as brushing or grinding may release dust. Use a vacuum cleaner with HEPA filter and respirators when needed. • Ensure proper ventilation in the workspace. • Keep unauthorized people away from work areas while working. • Adhere to environmental standards applicable to your area of operation.