Operation & Maintenance Manual

GALEO

PC120-6

PC120LC-6

HYDRAULIC EXCAVATOR

SERIAL NUMBERS

PC120-6
70001 and up

PC120LC-6
70001 and up

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1. FOREWORD

This manual provides rules and guidelines which will help you use this machine safely and effectively. Keep this manual handy and have all personnel read it periodically. If this manual has been lost or has become dirty and can not be read, request a replacement manual from Komatsu or your Komatsu distributor.

If you sell the machine, be sure to give this manual to the new owners.

Continuing improvements in the design of this machine can lead to changes in detail which may not be reflected in this manual. Consult Komatsu or your Komatsu distributor for the latest available information of your machine or for questions regarding information in this manual.

This manual may contain attachments and optional equipment that are not available in your area. Consult Komatsu or your Komatsu distributor for those items you may require.

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**WARNING**

- Improper operation and maintenance of this machine can be hazardous and could result in serious injury or death.
- Operators and maintenance personnel should read this manual thoroughly before beginning operation or maintenance.
  
  Keep this manual in the luggage box to the rear of the operator's seat, and have all personnel involved in working on the machine read the manual periodically.
- Some actions involved in operation and maintenance of the machine can cause a serious accident, if they are not done in a manner described in this manual.
- The procedures and precautions given in this manual apply only to intended uses of the machine. If you use your machine for any unintended uses that are not specifically prohibited, you must be sure that it is safe for you and others. In no event should you or others engage in prohibited uses or actions as described in this manual.
- Komatsu delivers machines that comply with all applicable regulations and standards of the country to which it has been shipped. If this machine has been purchased in another country or purchased from someone in another country, it may lack certain safety devices and specifications that are necessary for use in your country. If there is any question about whether your product complies with the applicable standards and regulations of your country, consult Komatsu or your Komatsu distributor before operating the machine.
- The description of safety is given in SAFETY INFORMATION on page 0-4 and in SAFETY from page 1-1.

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**CALIFORNIA Proposition 65 Warning**

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

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**CALIFORNIA Proposition 65 Warning**

Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Wash hands after handling.
1. FOREWORD

EMISSION CONTROL WARRANTY

EMISSION CONTROL WARRANTY STATEMENT (APPLIES TO CANADA ONLY)

1. Products Warranted

Komatsu America International Company, Komatsu Mining Systems Inc. and Komatsu Utility Corporation (collectively "Komatsu") produce and/or market products under brand names of Komatsu, Dresser, Dressuta, Haulpak and Galion. This emissions warranty applies to new engines bearing the Komatsu name installed in these products and used in Canada in machines designed for industrial off-highway use. This warranty applies only to these engines produced on or after January 1, 2000. This warranty will be administered by Komatsu distribution in Canada.

2. Coverage

Komatsu warrants to the ultimate purchaser and each subsequent purchaser that the engine, as designed, built and equipped so as to conform, at the time of sale by Komatsu, with all U.S. Federal emission regulations applicable at the time of manufacture and that it is free from defects in workmanship or material which would cause it not to meet these regulations within five years or 3,000 hours of operation, whichever occurs first, as measured from the date of delivery of the engine to the ultimate purchaser.

3. Limitations

Failures, other than those resulting from defects in materials or workmanship, are not covered by this warranty. Komatsu is not responsible for failures or damage resulting from what Komatsu determines to be abuse, neglect, including, but not limited to: operation without adequate coolant or lubricants; over fueling; over speeding; lack of maintenance of the engine, cooling, or intake systems; improper storage, starting, warm-up, or shutdown practices; unauthorized modifications of the engine; Komatsu is also not responsible for failures caused by incorrect fuel or by water, dirt or other contaminants in the fuel. Komatsu is not responsible for non-engine repairs, “downtime” expense, related damage, fines, all business costs or other losses resulting from a warrantable failure.

Komatsu is not responsible for accidental or consequential damages.

This warranty, together with the express, commercial warranties, are the sole warranties of Komatsu. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

GARANTIE SUR LE CONTRÔLE DES ÉMISSIONS

ÉNONCÉ DE GARANTIE SUR LE CONTRÔLE DES ÉMISSIONS (APPLICABLE AU CANADA SEULEMENT):

1. Produits garantis


2. Couverture:

Komatsu garantit à l’acheteur ultime et chaque acheteur subséquent que le moteur est conçu, construit et équipé en toute conformité, au moment de la vente par Komatsu, avec toutes les Réglementations fédérales américaines sur les émissions applicables au moment de la fabrication et qu’il est exempt de défauts de construction ou de matériaux qui auraient pour effet de contrevenir à ces réglementations en douze ans ou 3000 heures d’opération, mesuré à partir de la date de livraison du moteur au client ultime.

3. Limitations:

Les bris, autres que ceux résultant de défauts de matériaux ou de construction, ne sont pas couverts par cette Garantie. Komatsu n’est pas responsable pour bris ou dommages résultant de ce que Komatsu détermine comme étant de l’abus ou négligence, inclus mais ne se limitant pas à : l’opération sans lubriﬁants ou agent refroidissants adéquats; la suralimentation d’essence; la surproduction; le manque d’entretien des systèmes de lubriﬁcation, de refroidissement ou d’entrée; de pratiques non-propres d’entreposage, de mise en marche, de réchauffement, de conditionnement ou d’arrêt; les modiﬁcations non-autorisées du moteur. De plus, Komatsu n’est pas responsable de bris causés par de l’essence inadéquate ou de l’eau, des saletés ou autres contaminants dans l’essence. Komatsu n’est pas responsable des réparations non-résilées au moteur, des dépenses encourues suite aux temps d’arrêt, des dommages relatifs, amendes, et de tout autre coût d’affaires ou autres pertes résultant d’un bris couvert par la garantie.

Komatsu n’est pas responsable des incidents ou dommages conséquents.

Cette garantie, ainsi que les garanties expresses commerciales, sont les seules garanties de Komatsu. IL N’Y A AUCUNE AUTRE GARANTIE, EXPRESSE OU SOUS-ENTENDUE, MARCHANDABLE OU PROPICE À UNE UTILISATION PARTICULIÈRE.
### Important Engine Information

This engine conforms to YYYY model year EPA, CARB, and California regulations for large non-road compression ignition engines. This engine is certified to operate on diesel.

**WARNING**

Injury may result and warranty is voided if engine RPM or altitudes exceed published maximum values for this model and application.

<table>
<thead>
<tr>
<th>Engine Model</th>
<th>Serial No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Family</td>
<td>Displacement</td>
</tr>
<tr>
<td>Exhaust Emission</td>
<td>Firing Order</td>
</tr>
<tr>
<td>Control System</td>
<td>ADV Load Output</td>
</tr>
<tr>
<td>Valve Lash</td>
<td>IN. EX. Fuel Rate</td>
</tr>
<tr>
<td>Cold (mm)</td>
<td>RPM</td>
</tr>
<tr>
<td>Idle Speed</td>
<td>Initial Injection</td>
</tr>
<tr>
<td>Deg. BTDC</td>
<td>Date of Manufacture</td>
</tr>
<tr>
<td>Komatsu Ltd.</td>
<td>Made in Japan</td>
</tr>
</tbody>
</table>

Komatsu LTÉÉ Fabriqué au Japon

**AVERTISSEMENT**

Des blessures peuvent résulter et la garantie s'annulera si les RPM du taux d'essence ou la hauteur excèdent les valeurs maximales publiées pour ce modèle et son application.

Modèle du Moteur
Famille du Moteur
Système de contrôle des émissions d'échappement
Charge de sortie ADV.
Portée de Valve à Froid (mm)
Vitesse statique
Réglage de l'allumage - injection initiale
Deg. BTDC
No. Série
Déplacement
Litres
Séquence de mise à feu
Taux d'essence à ADV.
Limite d'émission de la famille
Date de fabrication

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**ENGINE DATAPlate - ENGLISH / FRENCH**
2. SAFETY INFORMATION

Most accidents are caused by the failure to follow fundamental safety rules for the operation and maintenance of machines. To avoid accidents, read, understand and follow all precautions and warnings in this manual and on the machine before performing operation and maintenance.

To identify safety messages in this manual and on machine labels, the following signal words are used.

**DANGER** – This word is used on safety messages and safety labels where there is a high probability of serious injury or death if the hazard is not avoided. These safety messages or labels usually describe precautions that must be taken to avoid the hazard. Failure to avoid this hazard may also result in serious damage to the machine.

**WARNING** – This word is used on safety messages and safety labels where there is a potentially dangerous situation which could result in serious injury or death if the hazard is not avoided. These safety messages or labels usually describe precautions that must be taken to avoid the hazard. Failure to avoid this hazard may also result in serious damage to the machine.

**CAUTION** – This word is used on safety messages and safety labels for hazards which could result in minor or moderate injury if the hazard is not avoided. This word might also be word for hazards where the only result could be damage to the machine.

**NOTICE** – This word is used for precautions that must be taken to avoid actions which could shorten the life of the machine.

Safety precautions are described in SAFETY from page 1-1.

Komatsu cannot predict every circumstance that might involve a potential hazard in operation and maintenance. Therefore, the safety messages in this manual and on the machine may not include all possible safety precautions. If any procedures or actions not specifically recommended or allowed in this manual are used, you must be sure that you and others can do such procedures and actions safely and without damaging the machine. If you are unsure about the safety of some procedures, contact Komatsu distributor.
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