

<b>PRODUCT ADVISORY</b>	<b>MLM PA 11 004-02</b>
-------------------------	-------------------------

THIS PRODUCT ADVISORY PROVIDES INFORMATION RELATED TO PRODUCT USE, MAINTENANCE, INSPECTIONS, AND UPDATES AVAILABLE FOR OUR PRODUCTS.

<b>SUBJECT:</b>	<b>Using machine at low temperature (&lt; - 10°C)</b>		
<b>DATE OF RELEASE:</b>	<b>March, 30<sup>th</sup> 2012</b>	<b>VERSION:</b>	<b>MODIFICATION:</b>
		01	Creation of Bulletin
		02	Temperature changed from 0°C to -10°C
<b>MODEL(S) AFFECTED:</b>	<b>All mobile cranes made by Terex Cranes France and PPM</b>		
<b>ISSUE:</b>	<p>Terex Cranes France is aware of cases of telescopic cylinder on mobile cranes not working properly when being operated at low temperature (air temperature below -10°C).</p> <p><b>Operating the crane at low temperature can lead to increased oil pressure when oil is not pre-heated; this may lead to crane motions not working properly and may damage the cylinders</b></p>		
<b>BACKGROUND:</b>	Customers ask for knowledge and procedure to warm up the engine and hydraulic oil.		
<b>ACTION:</b>	<p>Proceed with the work described in Working Instructions.</p> <ol style="list-style-type: none"> <li>1. Stick a sticker in the upper cab.</li> <li>2. Update the Operation and Maintenance manual.</li> <li>3. For Operation and Maintenance manual in another language than English, contact: <a href="mailto:adrien.grenot@terex.com">adrien.grenot@terex.com</a></li> </ol> <p>To ensure efficient crane operation, crane components and hydraulic oil have to be warmed up by actuating crane motions as per the instruction given.</p> <p><b>Please refer to the bulletin MLM SA 11 001-01 and to your “Operation and Maintenance Manual” delivered with your machine for information related to hydraulic oils.</b></p>		
<b>LOCATION ON MACHINE:</b>	Upper cabin		

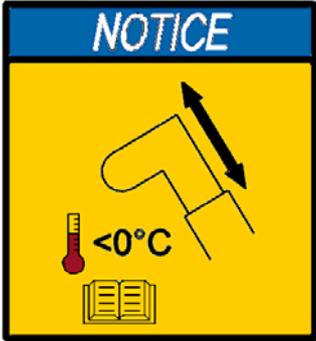
THIS PRODUCT ADVISORY PROVIDES INFORMATION RELATED TO PRODUCT USE, MAINTENANCE, INSPECTIONS, AND PRODUCT UPDATES AND IS NOT COVERED IN ANY WAY BY PRODUCT WARRANTY.

For enquiries or comments about this notice, please contact:

**Terex Cranes France**  
 ZI de la Saule – BP 106, 71304 Montceau-les-Mines cedex, France

Mr Adrien GRENOT / Department: After Sales  
 Phone: + 33 (0) 385 673 946; Fax: +33 (0)385 673 917; Email: [adrien.grenot@terex.com](mailto:adrien.grenot@terex.com)

<b>PRODUCT ADVISORY</b>	<b>MLM PA 11 004-02</b>
-------------------------	-------------------------

<b>WORKING INSTRUCTION:</b>	1) Stick the sticker <b>Z7544068</b> inside the upper cab on the right window.
Ref Terex WI:	
	2) Update the Operation and Maintenance manual (pages provides in annex).  Content of the updated part of the manual: <b>1. Starting the machine after long inactive period at temperature below -10°C</b>  <b>2. Using the crane functions in temperatures below -10°C:</b>

<b>WARRANTY REIMBURSEMENT:</b>	not applicable
--------------------------------	----------------

THIS PRODUCT ADVISORY PROVIDES INFORMATION RELATED TO PRODUCT USE, MAINTENANCE, INSPECTIONS, AND PRODUCT UPDATES AND IS NOT COVERED IN ANY WAY BY PRODUCT WARRANTY.

For enquiries or comments about this notice, please contact:

**Terex Cranes France**  
ZI de la Saule – BP 106, 71304 Montceau-les-Mines cedex, France

Mr Adrien GRENOT / Department: After Sales  
Phone: + 33 (0) 385 673 946; Fax: +33 (0)385 673 917; Email: [adrien.grenot@terex.com](mailto:adrien.grenot@terex.com)



## *Using the machine in cold conditions*

### *a) Starting the machine after extended periods of inactivity in temperatures below -10°C.*

Once the engine has been switched on, leave it running 20 minutes:

To bring the engine to a normal operating temperature

- engine at idling speed
- in neutral
- suspension lowered
- parking brake applied
- without performing any crane movements

To bring mechanisms to normal service temperature:

Turn on the cab heater to warm up the interior and defrost the vehicle

- level the suspension for on-road use

### *b) Using the crane functions in temperature below -10°C*

**AVIS**

**For machines with hydraulic oil brand Shell Tellus T46 (or equivalent), bellows instructions must be done for temperature below 0°C.**

After travelling by road or after the crane has been unused for more than one hour:  
Heat the hydraulic oil in the tank by slewing for at least 15 minutes without releasing the slewing brake with the heat engine running at between 1,000 and 1,500 rpm.

Fully raise and lower the boom at **½ maximum speed**.

Fully telescope all the boom sections unladen at **1/3 maximum speed**.

**AVIS**

**Telescoping out at maximum speed when the oil is cold could damage the telescoping cylinder(s).**

**Fully retract all the boom sections into the storage position.**

**The machine can be used normally after this procedure has been performed.**



## AVIS

**In cold conditions:**

**Keep the suspension lowered.**

**Leave the engine running for 20 minutes to warm up the hydraulic oil.**

**The suspension accumulators may be damaged if the hydraulic oil is not warm enough.**

### *Stopping the engine*

Leave the engine running a few moments before switching it off.

Turn the key to switch off the engine and the ignition.

## AVIS

**Never switch the engine off if the range selector is in any position other than neutral "N".**

## AVIS

**Never accelerate just before stopping the engine, as the turbo compressor may be damaged through lack of lubrication.**

<b>PRODUCT ADVISORY</b>	<b>MLM PA 11 004-02</b>
-------------------------	-------------------------

## Reply form in case of owner change

TEREX® offers service over the whole lifetime of the machine.

**Please fulfil and return this form to your TEREX® contact if one of the owners of the affected machines has changed.**

Your feedback will help you and Terex® - THANK YOU!

Machine	
<b>Serial Number:</b>	
<b>Type :</b>	

Previous owner	
<b>Company:</b>	
<b>Address:</b>	
<b>Zip code / City</b>	
<b>Country:</b>	
<b>Phone:</b>	
<b>E-mail:</b>	

New owner	
<b>Company:</b>	
<b>Address:</b>	
<b>Zip code / City</b>	
<b>Country:</b>	
<b>Phone:</b>	
<b>E-mail:</b>	

Form to be returned by Fax to Adrien GRENOT:  
**+33 (0) 385 673 917**

or via E-mail to: [adrien.grenot@terex.com](mailto:adrien.grenot@terex.com)

THIS PRODUCT ADVISORY PROVIDES INFORMATION RELATED TO PRODUCT USE, MAINTENANCE, INSPECTIONS, AND PRODUCT UPDATES AND IS NOT COVERED IN ANY WAY BY PRODUCT WARRANTY.
---

For enquiries or comments about this notice, please contact:

**Terex Cranes France**  
ZI de la Saule – BP 106, 71304 Montceau-les-Mines cedex, France

---

Mr Adrien GRENOT / Department: After Sales  
Phone: + 33 (0) 385 673 946; Fax: +33 (0)385 673 917; Email: [adrien.grenot@terex.com](mailto:adrien.grenot@terex.com)