CEBM009200

Shop Manual

KOMATSU®

WB140PS-2
WB150PS-2
POWER-SHIFT

BACKHOE LOADER TRANSMISSION
Model TLB2 4WD 4WS/2WS PS

SERIAL NUMBERS **WB140PS-2 140F50001 – F50091**
WB150PS-2 150F50001 – F50019

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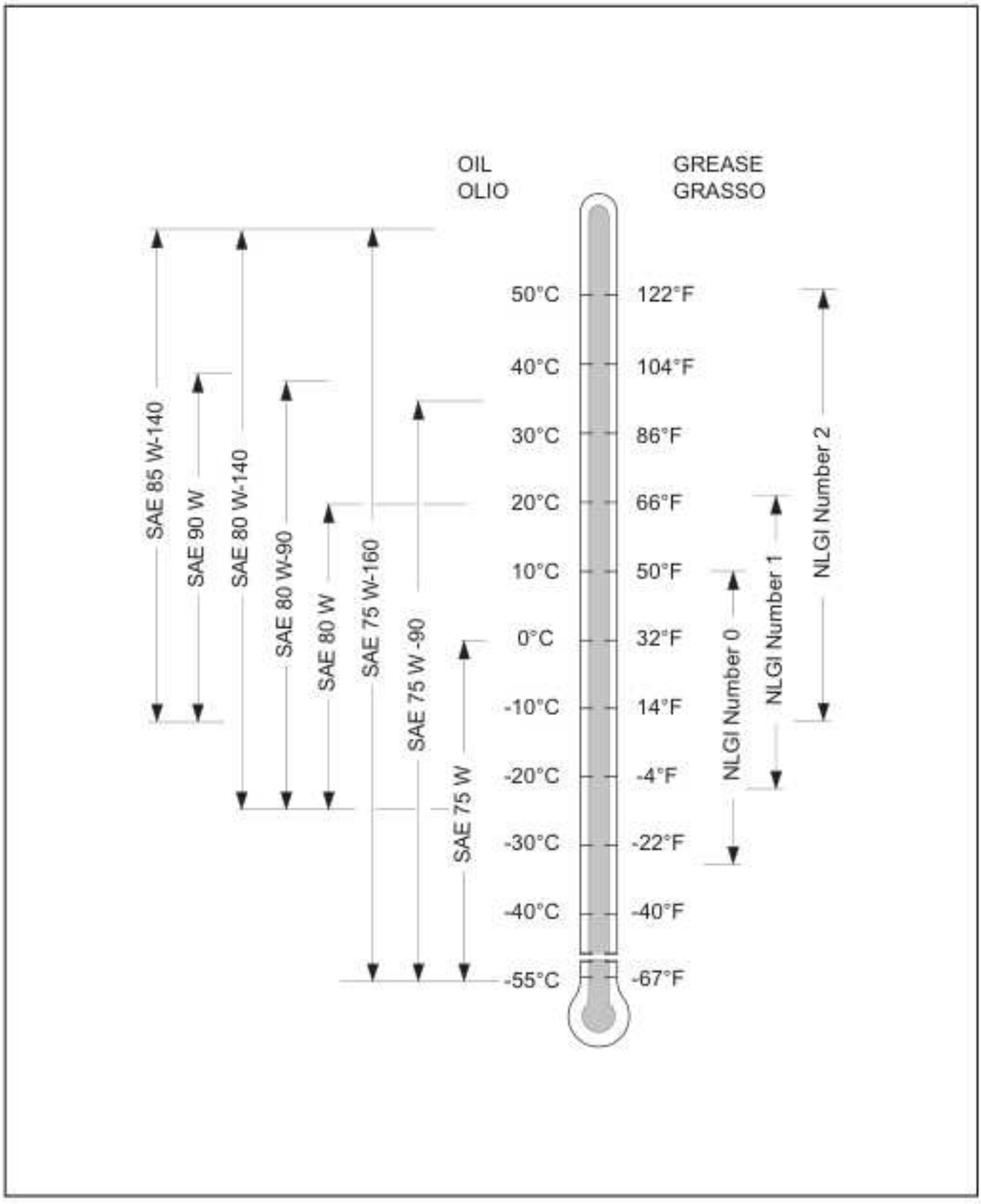
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C.8 Lubrificazione / ingrassaggio: gradazioni e relativi campi di applicazione

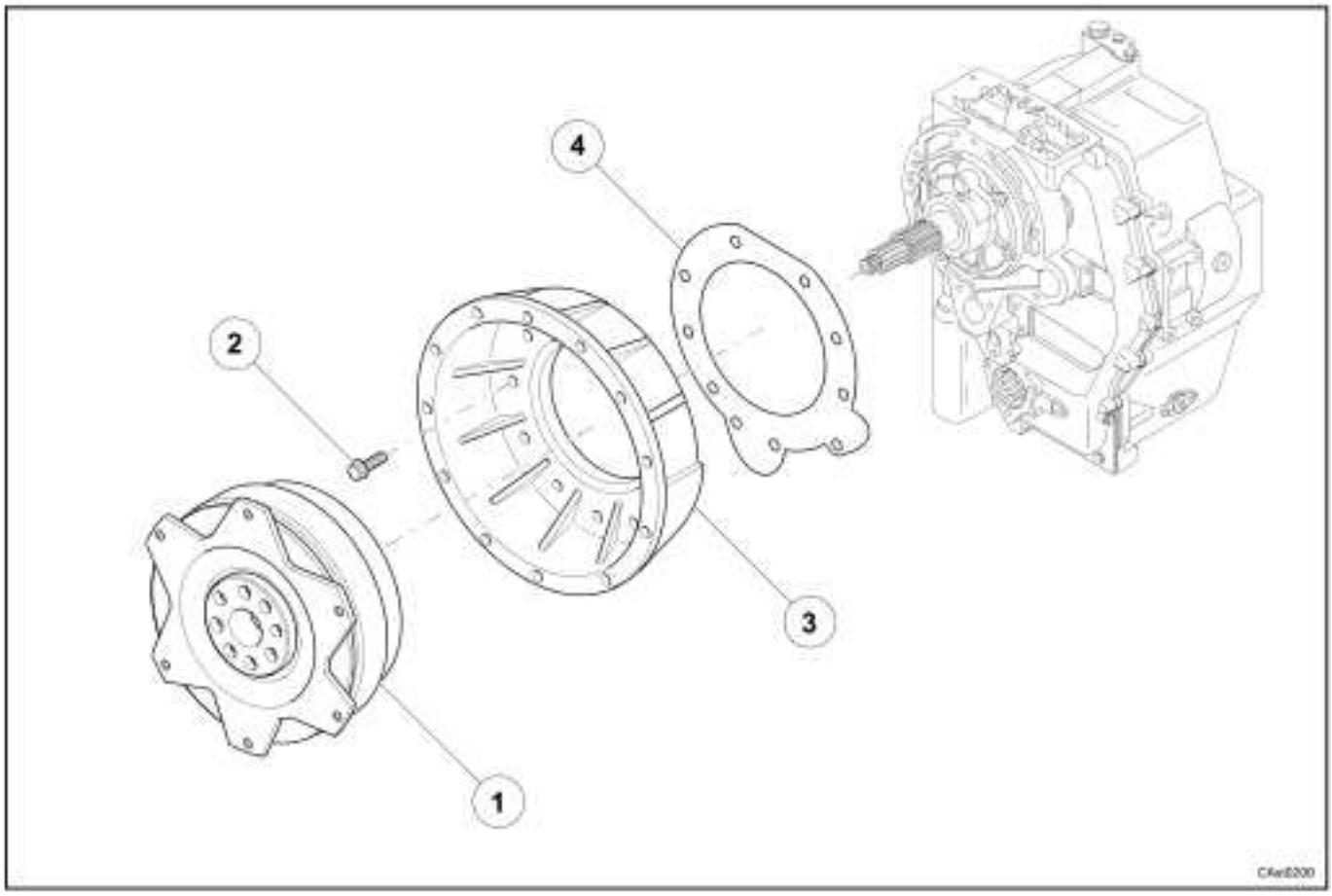
C.8 Lubrication / greasing: grades and application range



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D.1 Convertitore 2WS/4WS

D.1 Converter 2WS/4WS



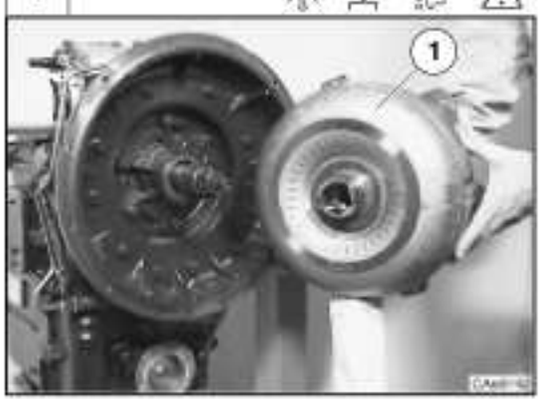
D.1.1 Smontaggio

Alcune figure che seguono potrebbero non mostrare esattamente la vostra trasmissione, ma la procedura rimane la stessa.

D.1.1 Disassembly

Some of the following pictures could not show exactly your transmission, but the procedure is the same.

1



Scaricare l'olio dal circuito idraulico della trasmissione.
Rimuovere il convertitore (**1**).

Drain oil from transmission hydraulic circuit.
*Remove torque converter (**1**).*

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E.2 Troubleshooting of transmission

The next table lists problems, possible causes and recommended corrective action.

Problem	Cause	Action
Vehicle does not move	Faulty supply to solenoid valves	Check/Replace
	Damaged wiring connections between transmission and vehicle	Repair/Replace
	Oxidised contacts in electrical wiring	Clean
	Break in electric cable	Replace
	Damaged solenoids	Replace
	Damaged sensors	Replace
	Short circuits or false contacts	Check/replace fuses
TLB2	Irregular functioning of electronic gear management (EGM)	Replace EGM
	Incorrect oil level	Top up
	Check for leaks	Repair/Top up
	Blocked intake filter	Clean
	Damaged oil pump	Replace
	Damaged oil pump relief valve	Replace oil pump
	Blocked/damaged transmission filter	Replace
	Damaged/jammed control valve	Replace
	Damaged converter	Replace
	Oil temperature below 0°C	Wait for oil to reach working temperature (stall test)
	Damaged rotary seals	Replace
TLB1	Damaged synchronisers	Replace
	Blocked reverser lever	Repair
	Worn clutch unit	Replace/Repair clutch unit
	No drive transmission (broken gears, shafts, bearings, etc.)	Check/Repair/Replace
Vehicle has reduced power transmission	Incorrect oil temperature	Wait for oil to reach working temperature (stall test)
	Transmission oil overheating	Restore acceptable temperature values
	Incorrect operating pressure	Check hydraulic circuit and replace (oil pump, filters, control valve)
	Damaged converter	Replace
	Incorrect oil level	Top up
	Worn clutch unit	Replace/Repair
	4WD clutch failure	Repair/Replace 4WD shaft group
	Overheating solenoids	Replace
	Damaged transmission and vehicle wiring connections	Repair/Replace
TLB2	Damaged EGM logic	Replace EGM
	Damaged sensors	Replace

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