ORIGINAL INSTRUCTIONS

OPERATOR'S MANUAL

W190C
W230C
Tier 4B (final)
Wheel Loader

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NEW HOLLAND CONSTRUCTION

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LEFT-HAND SIDE CONTROLS

Transmission controls

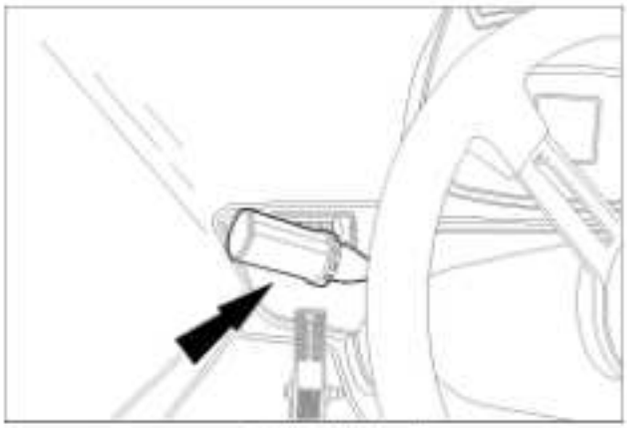
Transmission control lever

The transmission control lever is used to shift the transmission gears from first through fourth gear. Turn the transmission control lever away from you to select a higher gear. Turn the lever toward you to select a lower gear. This control lever is also used to put the transmission in FORWARD, NEUTRAL, and REVERSE (F-N-R).

A. Move the control lever away from you for FORWARD.

B. The center position of the control lever is NEUTRAL.

C. Move the control lever toward you for REVERSE.



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Using the steering column transmission lever

All the following steps are required in order to use the steering column transmission lever:

1. Service brake pressure must be at operating pressure.
2. Transmission control lever must be in neutral.
3. Push down on the bottom of the parking brake switch to release the parking brake switch.

NOTE: *If the parking brake was NOT set when the machine was turned OFF, the parking brake switch must be cycled at step 3.*

4. Place the transmission control lever in either FORWARD or REVERSE to move the machine.

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Grease machine and attachments

Machine grease fittings

Service specifications	
Grease Specification	NEW HOLLAND AMBRA GR 75 MD

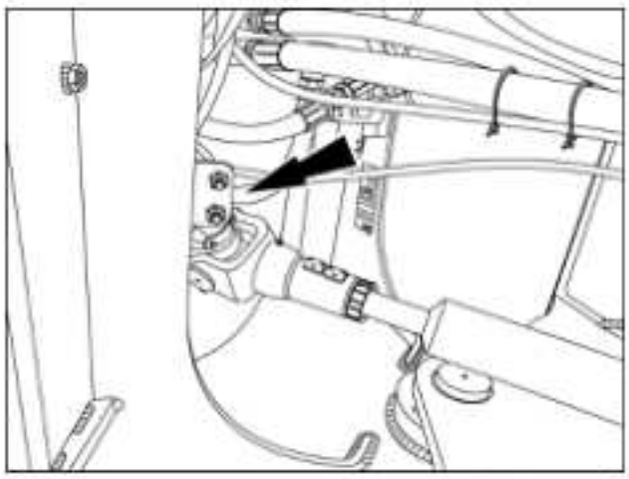
Grease the machine at the remote locations when the hour meter registers 50 hours.

Clean around the area to be greased before service.

NOTE: *In severe conditions, such as immersion in water, it may be necessary to reduce the greasing service intervals.*

Drive shaft carrier bearing
Tilt cylinder

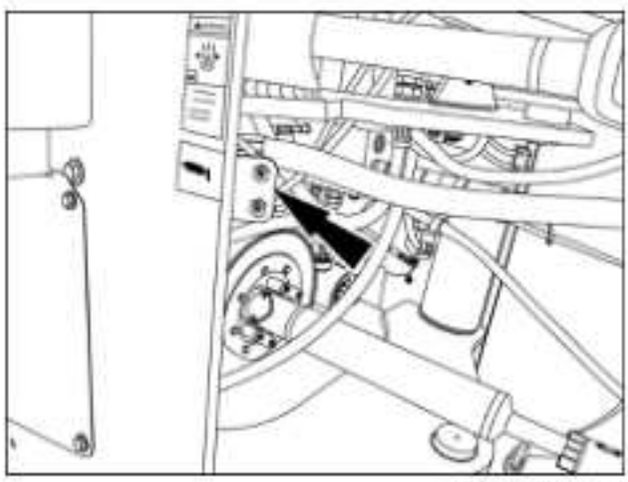
Grease the drive shaft carrier bearing and the tilt cylinder at the remote grease locations. (Front left of machine)



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Rear axle trunnion

Grease the axle oscillation at t the remote grease locations. (Rear right of machine)



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Lift capacities W190C and W230C Hydraulic lift capacities

W190C Model configurations

The following table lists hydraulic lift capacities for W190C Z-Bar lift applications:

	Bolt-on Edge Bucket	w/Teeth Bucket
W190C Z-Bar Specifications - **2.6 m³ (3.40 yd³)** Bucket (HD Pin On)		
Full height	**10226 kg (22544 lb)**	**10229 kg (22551 lb)**
Maximum reach	**13803 kg (30430 lb)**	**13820 kg (30468 lb)**
Ground	**18356 kg (40468 lb)**	**18478 kg (40737 lb)**
W190C Z-Bar Specifications - **3.2 m³ (4.25 yd³)** Bucket (MD Pin On)		
Full height	**10071 kg (22203 lb)**	**10058 kg (22174 lb)**
Maximum reach	**13641 kg (30073 lb)**	**13632 kg (30053 lb)**
Ground	**18112 kg (39930 lb)**	**18137 kg (39985 lb)**
W190C Z-Bar Specifications - **3.4 m³ (4.50 yd³)** Bucket (LD Pin On)		
Full height	**10039 kg (22132 lb)**	Not applicable
Maximum reach	**13600 kg (29983 lb)**	Not applicable
Ground	**17987 kg (39655 lb)**	Not applicable
W190C Z-Bar Specifications - **2.7 m³ (3.50 yd³)** Bucket GP on CNH Quick Coupler		
Full height	**9420 kg (20768 lb)**	**9513 kg (20973 lb)**
Maximum reach	**12939 kg (28526 lb)**	**13039 kg (28746 lb)**
Ground	**14539 kg (32053 lb)**	**15185 kg (33477 lb)**
W190C Z-Bar Specifications - **2.7 m³ (3.50 yd³)** Bucket GP on CNH Quick Coupler (ACS compatible)		
Full height	**9423 kg (20775 lb)**	**9498 kg (20939 lb)**
Maximum reach	**12957 kg (28565 lb)**	**13039 kg (28747 lb)**
Ground	**15762 kg (34749 lb)**	**16557 kg (36502 lb)**

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C SERIES WHEEL LOADER
TIER 4 FINAL SCR DEF QUICK REFERENCE GUIDE

DIESEL EXHAUST FLUID (DEF) FACTS & TIPS

- DEF is a non toxic aqueous liquid urea (32.5%) solution and water (67.5%). DEF is neither explosive nor harmful to the environment and is classified under the minimum risk category of transportable fluids.
- DEF quality is defined by ISO 22241-1. The American Petroleum Institute (API) has a voluntary certification program for DEF. To ensure DEF satisfies the requirement of ISO 22241-1, look for the API® DEF Certification Mark™.
- Do not use anti-gelling or freeze point additive to DEF. This will dilute the urea content having a negative impact with the system's operation.
- Personal Protection Equipment (PPE) is not required under normal conditions. If splashing is likely, wear goggles and gloves.
- DEF shelf life varies with storage ambient temperature. (Storage Guidelines, Fig. 1).

Fig. 1



FUEL

- Use only grade #2D (S15) diesel fuel that meets SAE J313 or D97581 Specification.
- If operating in very cold climates it is acceptable to use a mixture of #1D (S15) and #2D (S15) fuel.

BIO DIESEL

- Use only Biodiesel blends that meet EN14212 or ASTM D6751 Specifications.
- B5, B7 and B20 are approved blends. B100 is NOT approved. Blends over B5 may cause loss of engine power and shorten engine oil filter and fuel filter service intervals.
- Bio Diesel blends that do not meet certification can cause damage to the engine, fuel system and after treatment system.

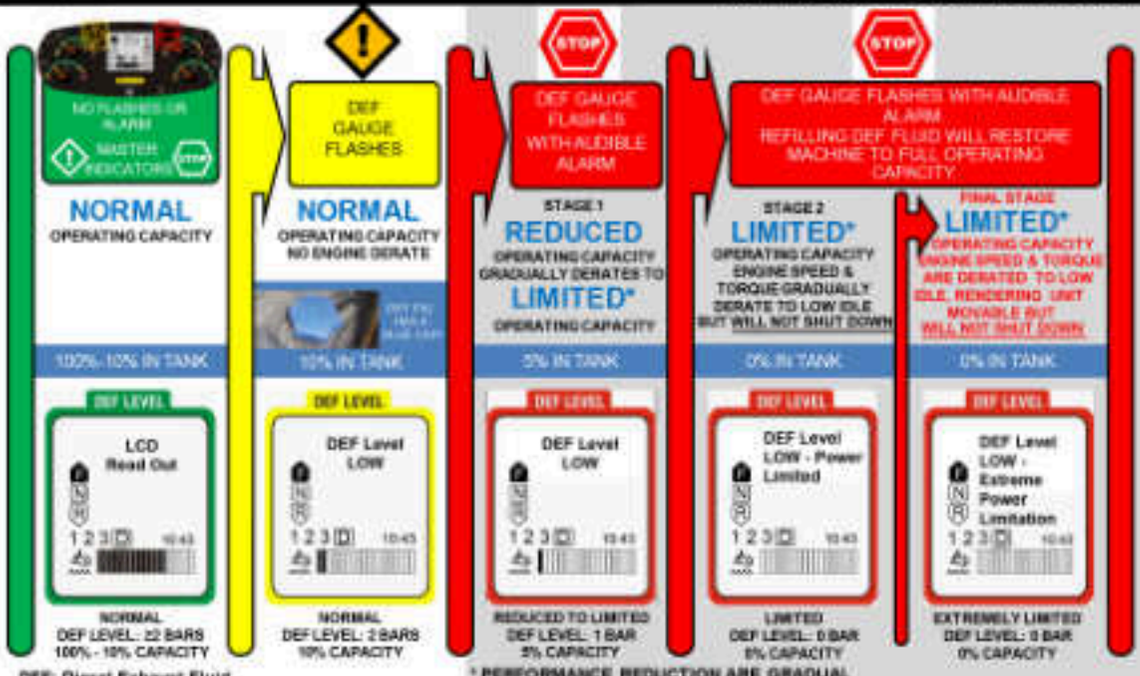
OIL

- Use Ambra Unilek multi-viscosity engine oil to ensure long life and service in all working conditions. Consult the temperature range chart to determine the proper oil viscosity.
- Engine oil type CJ-4 is an acceptable alternative.
- Low ash oil is not required.

Consult operator's or service manual for specification and operating range details. Keep this quick reference guide with the operators manual and accessible to the operator at all times

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C SERIES WHEEL LOADER
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