821F - 921F
Tier4B
Wheel Loader

OPERATOR'S MANUAL

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CASE CONSTRUCTION

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Switch operations

1. Rear wiper switch



A. Push switch to the center position for ON.
B. Push on the front of switch for washer fluid.



RCSL10WHLY02BAL 1

2. Front wiper/washer switch

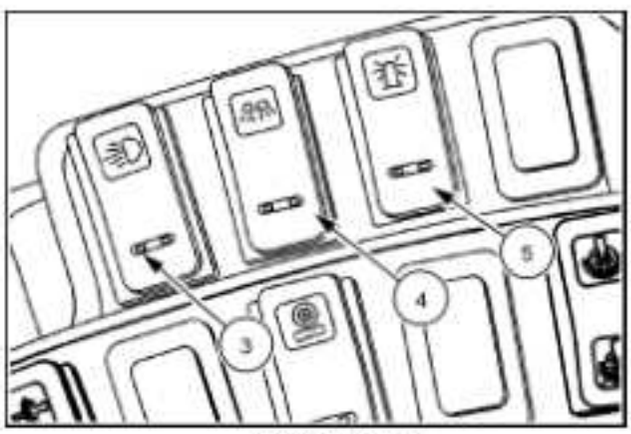


A. OFF - Toggle switch is in the OFF position.
B. INTERMITTENT - Push toggle to the first position. There are six settings for intermittent wiper speeds.
C. LOW - Push toggle ahead until the wiper runs continuously for low wiper speed.
D. HIGH - Push toggle ahead for high wiper speed.
E. WASH - Push down on the front of the switch for washer fluid.

3. Driving light switch



Push on the top of the switch for roading machine. Pushing on the bottom of the switch will turn the lights OFF. The middle position is for marker/position lights.



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4. Work light switch



Push on the top of the switch for front and rear working lights. The middle position is for front work lights only. Pushing on the bottom of the switch will turn the lights OFF.

5. Rotating beacon (optional)



Push on the top of the rotating beacon switch for the ON position. Push the switch bottom for the OFF position.

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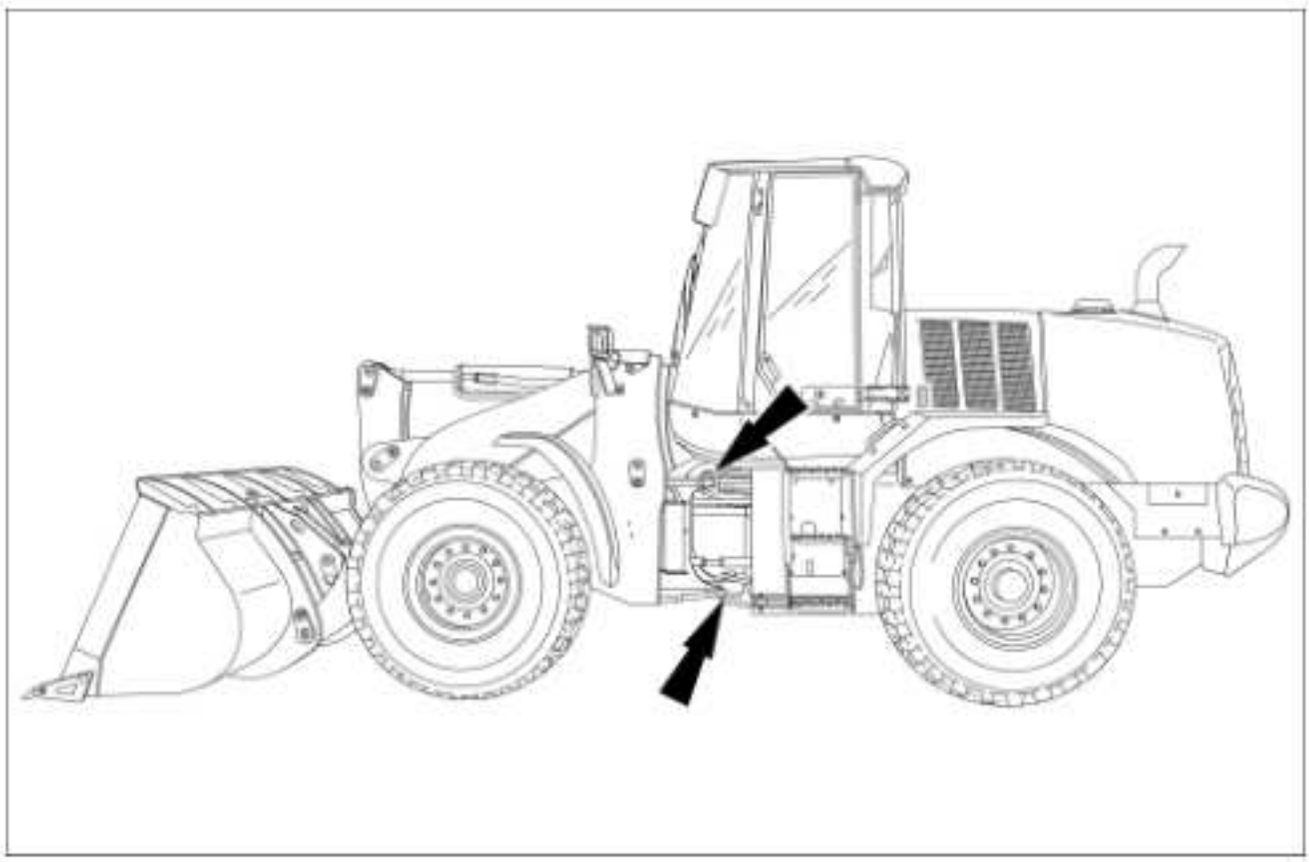
Every 1000 hours

Pivot points

Grease the upper and lower chassis pivot points when the hour meter registers 1000 hours or sooner if conditions so require.

Grease articulation fittings when the hour meter registers 1000 hours or more frequently if conditions so require.

Prior operation:
Keep all non-authorized personnel clear of the area. Park the machine on level ground, in neutral with the parking brake applied and the attachment lowered to the ground.



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Weight adjustments - Material Weights and Weight Adjustments

821F Weight Adjustment Specifications

Z-Bar Applications

Tire Option	Operating Weight	Tipping Load Adjustment (straight)	Tipping Load Adjustment (40° turn)
23.5 x 25 12 ply L2	**-430 kg (-948 lb)**	**-332 kg (-732 lb)**	**-293 kg (-646 lb)**
23.5 x 25 12 ply L3	**-142 kg (-313 lb)**	**-109 kg (-240 lb)**	**-96 kg (-212 lb)**
Standard counterweight	**-761 kg (-1678 lb)**	**-1762 kg (-3885 lb)**	**-1487 kg (-3278 lb)**

NOTE: *Unit equipped with **3.2 m³ (4.25 yd³)** bucket, MD pin on bucket w/bolt-on edge, 23.5R25 XHA2 Michelin tires, ROPS cab with heater and air conditioner, lights, full counterweight, standard batteries, front and rear fenders, full fuel and urea tank, and **79 kg (175 lb)** operator.*

XR/LR Applications

Tire Option	Operating Weight	Tipping Load Adjustment (straight)	Tipping Load Adjustment (40° turn)
23.5 x 25 12 ply L2	**-430 kg (-948 lb)**	**-279 kg (-615 lb)**	**-246 kg (-542 lb)**
23.5 x 25 12 ply L3	**-142 kg (-313 lb)**	**-92 kg (-203 lb)**	**-81 kg (-179 lb)**

NOTE: *Unit equipped with **3.2 m³ (4.25 yd³)** bucket, MD pin on bucket w/bolt-on edge, 23.5R25 XHA2 Michelin tires, ROPS cab with heater and air conditioner, lights, full counterweight, standard batteries, front and rear fenders, full fuel and urea tank, and **79 kg (175 lb)** operator.*

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CASE

F 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

DEF STORAGE GUIDELINES

Up to 30 °F (0 °C) 36 months
31° to 77 °F (25 °C) 18 months
78° to 86 °F (30 °C) 12 months
87° to 95 °F (35 °C) 6 months

FUEL

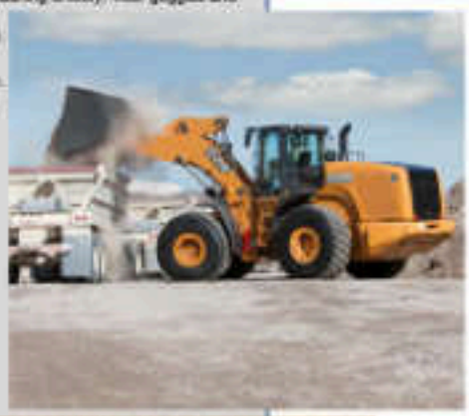
- Use only grade #2D (S15) diesel fuel that meets SAE J313 or D97581 Specification.
- If operating in very cold climates it is acceptable to use a mixture of #1D (S15) and #2D (S15) fuel.

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 CASE AKCELA 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.

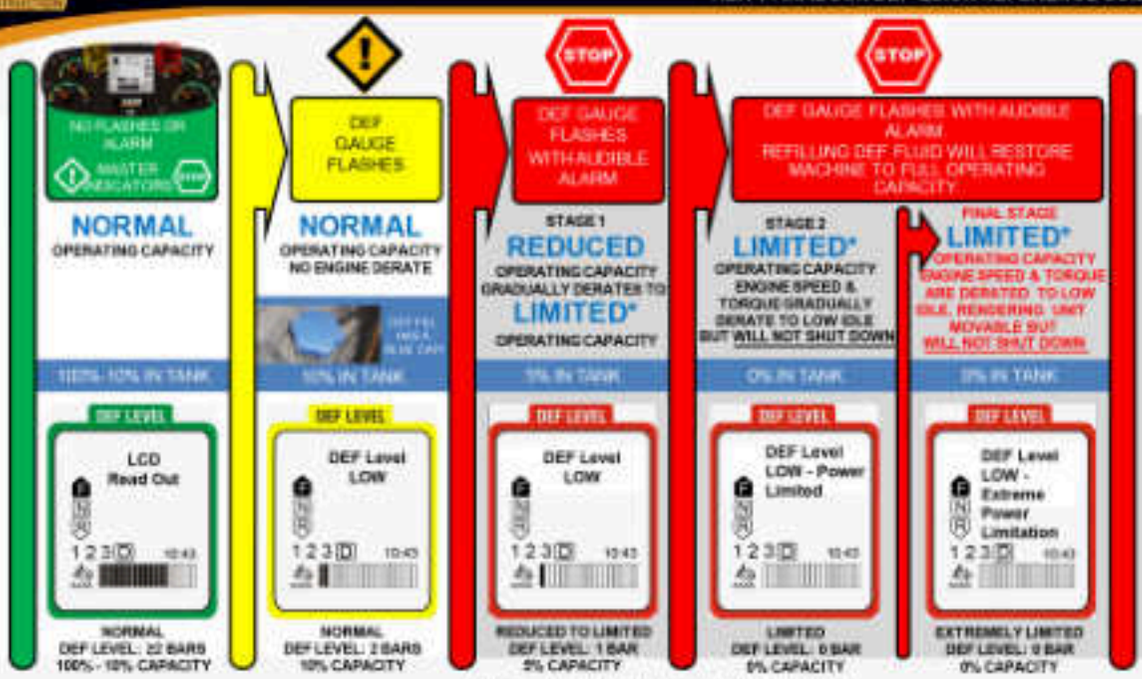


Consult operator's or service manual for specification and operating range details.
Keep this quick reference guide with the operators manual and accessible to the operator at all times.

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