CEAM019804

Operation & Maintenance Manual

WA320-6

WHEEL LOADER

SERIAL NUMBERS WA320-6 A34001 - A34999

ENGINE 6D107E-1

KOMATSU®

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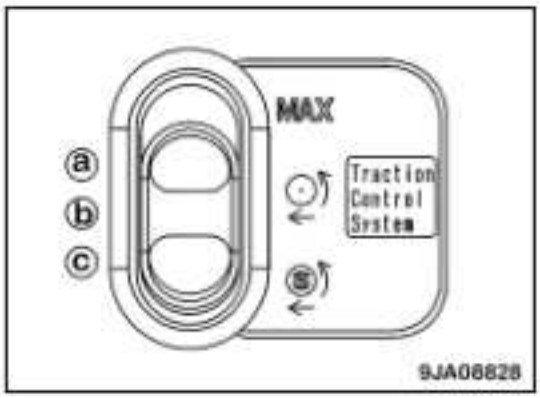
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Traction Control Switch

The traction control switch (7) is used to actuate the traction control and make it possible to reduce the maximum traction.



- Position (a): Traction control OFF (MAX)

  The traction control is not actuated.

- Position (b): Traction control ON

  The traction control is actuated.

  When the traction control is actuated, the traction control operation pilot lamp on the machine monitor lights up. It becomes possible to select the maximum traction level on the machine monitor from A, B, and C.

  ★ For details about selecting the traction level, see "Selecting Traction Level" on page 2-34.

- Position (c): S mode

  The S mode is actuated.

  If the S mode is actuated, the S mode operation pilot lamp on the machine monitor lights up.

  If the S mode is actuated, it is possible to select the most suitable drive power when operating on extremely slippery roads, such as during snow-clearing operations. This makes it possible to reduce tire slip and carry out the operation easily. In addition, it also suppresses the sudden movement when driving forward and allows the machine to move off smoothly.

Remark

Using the traction control switch and traction level selector function makes it possible to carry out efficient operations with reduced tire slip by selecting the most suitable maximum traction to match the job conditions.

★ If the traction is too great for the operating conditions:

It will become more difficult to raise the lift arm and tire slip will be more likely to occur. If tire slip becomes common, the working efficiency will deteriorate and the life of the tires will also be reduced.

★ If the traction is too small for the operating conditions:

It will become impossible to thrust the bucket sufficiently into the materials being loaded, and the working efficiency will deteriorate.

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Microbial Growth

Biodiesel fuel is an excellent medium for microbial growth. Microbes cause fuel system corrosion and premature filter plugging. The effectiveness of all commercially available conventional anti-microbial additives, when used in biodiesel, is not known. Consult your fuel and additive supplier for assistance.

Komatsu Biodiesel Blend Specification for B5 to B20

Final Blend Fuel Requirements (at point of delivery)

Item	Performance Characteristics	Requirements		Test Procedure
		D1 Blends	D2 Blends	
1	Flash Point, minimum	38°C (100°F)	52°C (125°F)	ASTM D93
2	Water and sediment volume, maximum	0.05%	0.05%	ASTM D2709 or D1796
3	Physical Distillation, T90°C (T194°F), maximum	343	343	ASTM D86
4	Kinematics Viscosity, cSt at 40°C (104°F)	1.3 – 4.1	1.9 – 4.1	ASTM D445
5	Ash, mass%, maximum	0.01	0.01	ASTM D482
6	Sulfur, st% maximum	Per regulation	Per regulation	ASTM D482
7	Copper strip corrosion rating, maximum	Number 3	Number 3	ASTM D130
8	Cetane Number, minimum	43	43	ASTM D613
9	Cloud Point [1]	Per foot note	Per foot note	ASTM D2500
10	Rams bottom carbon residue on 10% distillation residue, wt%, maximum	0.15	0.35	ASTM D524
11	Lubricity, HFRR at 60°C (140°F), micron, maximum	460	460	ASTM D6079
12	Acid number, mgKOH/g, maximum	0.3	0.3	ASTM D664
13	Phosphorus, wt%, maximum	0.001	0.001	ASTM D4951
14	Total Glycerin	–	–	N/A
15	Alkali metals (Na+K), ppm, maximum	Nd	Nd	EN14108
16	Alkali metals (Mg+Ca), ppm, maximum	Nd	Nd	EN14108
17	*Blend fraction, volume%[2]	±2%	±2%	EN14078
18	Thermo-oxidative stability, insolubles, mg/100 mL, maximum	10	10	Modified ASTM D2274[3]
19	Oxidation stability, Induction time, hours, minimum	6	6	EN14112 (Rancimat)

* Blend fraction refers to the variation in volume percent of B100 in diesel fuel claimed.

★ The maximum cloud point temperature shall be equal to or lower than the tenth percentile minimum ambient temperature in the geographical area and seasonal time frame as defined by ASTM D975.

★ Use glass fiber filter.

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Lubricating

★ When working on job sites where heavy-duty operations are frequent or when working continuously for more than eight hours, shorten the lubrication interval and carry out lubrication more frequently.

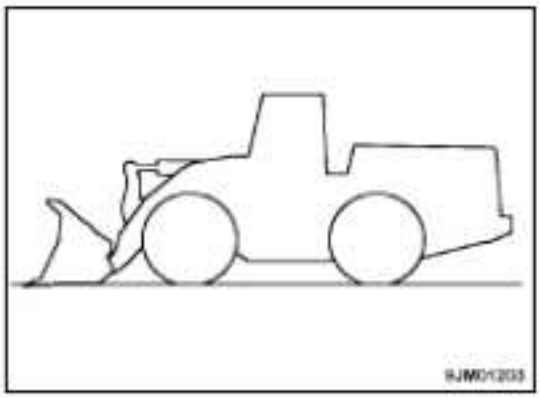
★ For the initial 50 hours, carry out lubrication every 10 hours.

1. Stop the machine on level ground and lower the work equipment completely to the ground.

2. Stop the engine.

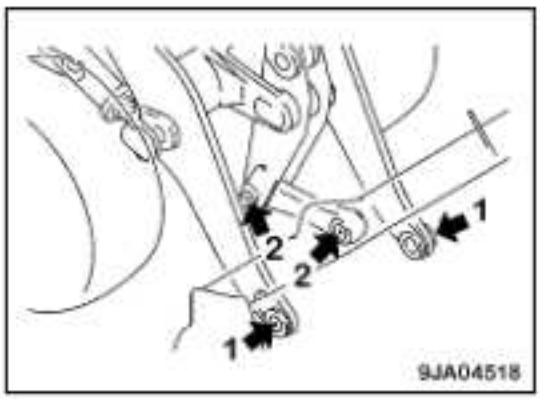
3. Using a grease pump, pump in grease through the grease fittings marked by the arrows.

4. After greasing, wipe off any grease that was pushed out.



(1) Bucket pin (2 places)

(2) Bucket link pin (2 places)



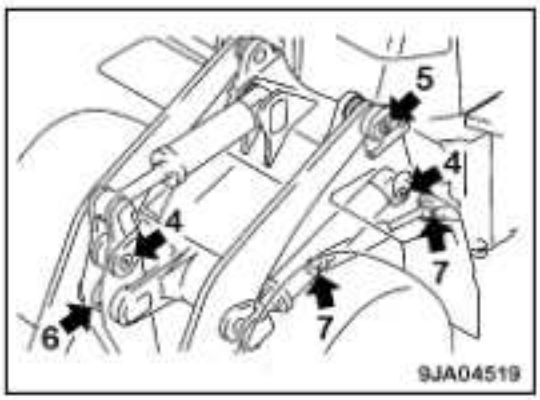
(3) Dump cylinder pin (2 places)

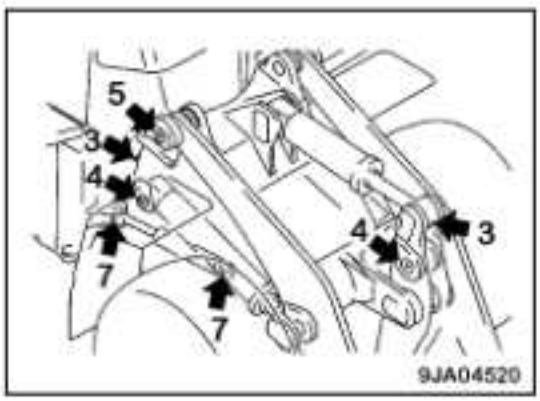
(4) Lift cylinder pin (4 places)

(5) Lift arm pivot pin (2 places)

(6) Bell crank pin (1 place)

(7) Steering cylinder pin (4 places)





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