Service Manual

Dumpster HTD5

Section 1 - General Information

Section 2 - Care & Safety

Section 3 - Maintenance

Section B - Body and Framework

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Safety Checklist

Safety - Yours and Others

INT-1-3-1_3

All machinery can be hazardous. When a machine is correctly operated and properly maintained, it is a safe machine to work with. But when it is carelessly operated or poorly maintained it can become a danger to you (the operator) and others.

In this manual and on the machine you will find warning messages. Read and understand them. They tell you of potential hazards and how to avoid them. If you do not fully understand the warning messages, ask your employer or JCB distributor to explain them.

But safety is not just a matter of responding to the warnings. All the time you are working on or with the machine you must be thinking what hazards there might be and how to avoid them.

Do not work with the machine until you are sure that you can control it.

Do not start any job until you are sure that you and those around you will be safe.

If you are unsure of anything, about the machine or the job, ask someone who knows. Do not assume anything.

Remember

BE CAREFUL
BE ALERT
BE SAFE

General Safety

T1-007_3

⚠ WARNING

Operator Manual

You and others can be injured if you operate or maintain the machine without first studying the Operator Manual. Read the safety instructions before operating the machine. If you do not understand anything, ask your employer or JCB dealer to explain it. Keep the Operator Manual clean and in good condition. Do not operate the machine without an Operator Manual in the cab, or if there is anything on the machine you do not understand.

INT-1-3-2_2

⚠ WARNING

Care and Alertness

All the time you are working with or on the machine, take care and stay alert. Always be careful. Always be alert for hazards.

INT-1-3-5

⚠ WARNING

Clothing

You can be injured if you do not wear the proper clothing. Loose clothing can get caught in the machinery. Wear protective clothing to suit the job. Examples of protective clothing are: a hard hat, safety shoes, safety glasses, a well fitting overall, ear-protectors and industrial gloves. Keep cuffs fastened. Do not wear a necktie or scarf. Keep long hair restrained. Remove rings, watches and personal jewellery.

INT-1-3-6_2

⚠ WARNING

Alcohol and Drugs

It is extremely dangerous to operate machinery when under the influence of alcohol or drugs. Do not consume alcoholic drinks or take drugs before or while operating the machine or attachments. Be aware of medicines which can cause drowsiness.

INT-1-3-9_2

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Service Schedules

A badly maintained machine is a danger to the operator and the people working around him. Make sure that the regular maintenance and lubrication jobs listed in the service schedules are done to keep the machine in a safe and efficient working condition.

⚠ WARNING

Maintenance

Maintenance must be done by suitably qualified personnel. Before attempting any maintenance work, make sure the machine is safe. Park on level ground. If it is necessary to work with the loader arms raised, then the loader arm safety strut must be fitted as shown in Loader Arm Safety Strut in MAINTENANCE section.

2-3-1-1

Apart from the daily jobs, the schedules are based on machine running hours. Keep a regular check on the hourmeter readings to correctly gauge service intervals. Do not use a machine which is due for a service. Make sure any defects found during the regular maintenance checks are rectified immediately.

Table 1. Key

☐	Regular Maintenance Check
○	Initial Service

Service Points and Fluid Level Checks - Engine Stopped	Operation	1 Day	1 Week	1 Month	3 Months	6 Months	1 Year
ENGINE							
Engine Oil	Check level	☐	☐	☐	☐	☐	☐
Engine Oil	Change(1)			○		☐	☐
Engine Oil Filter (Yanmar & Lombardini)	Clean(5)					☐	☐
Air Filter	Check	☐	☐	☐	☐	☐	☐
Air Filter (Honda)	Clean (2)				☐	☐	☐
Air Filter (Lombardini)	Clean (3)					☐	☐
Air Filter (Honda)	Replace						☐
Air Filter (Yanmar & Lombardini)	Replace					☐	☐
Sediment Cup (Honda)	Clean					☐	☐
Spark Plug (Honda)	Clean and adjust					☐	☐
Spark Plug (Honda)	Replace						☐
Idle Speed (Honda)	Check/adjust (4)						☐
Valve Clearances (Honda)	Check/adjust (4)						☐
Valve Clearances (Lombardini)	Check/adjust (5)					☐	☐
Fuel Tank and Filter (Honda & Yanmar)	Clean(4)					☐	☐
Fuel Filter (Lombardini)	Replace					☐	☐

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Lubricants and Capacities

ITEM	CAPACITY Litres (UK gals)	FLUID/LUBRICANT	INTERNATIONAL SPECIFICATION
Fuel Tank (Honda)	5.5 (1.2)	Petrol	Unleaded, 86 octane or higher
Fuel Tank (Yanmar)	3.5 (0.77)	Diesel	
Fuel Tank (Lombardini)	4.5 (1.0)	Diesel	
Engine Oil (Honda)	1.1 (0.24)	JCB 10/30 Multigrade	MIL-L-46152, API CC/SF
Engine Oil (Lombardini)	1.2 (0.26)	JCB 10/30 Multigrade	MIL-L-46152, API CC/SF
Engine Oil (Yanmar)	1.1 (0.24)	JCB 10/30 Multigrade	MIL-L-46152, API CC/SF
Track Idler Wheels	-	JCB HD90 Gear Oil	API-GL-5, MIL-L-2105D
Track Rollers	-	JCB HD90 Gear Oil	API-GL-5, MIL-L-2105D
Hydraulic System up to M1360211	18.5 (4.07)	JCB Hydraulic Fluid HP32	
Hydraulic System from M1360212	13 (2.86)	Up to 30 °C (86 °F)	
Hydraulic Tank up to M1360211	17 (3.74)	JCB Hydraulic Fluid HP46	
Hydraulic Tank from M1360212	11.5 (2.53)	Over 30 °C (86 °F)	
Grease Points	-	JCB MPL Grease	Lithium based no 2 consistency

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Lombardini Engine

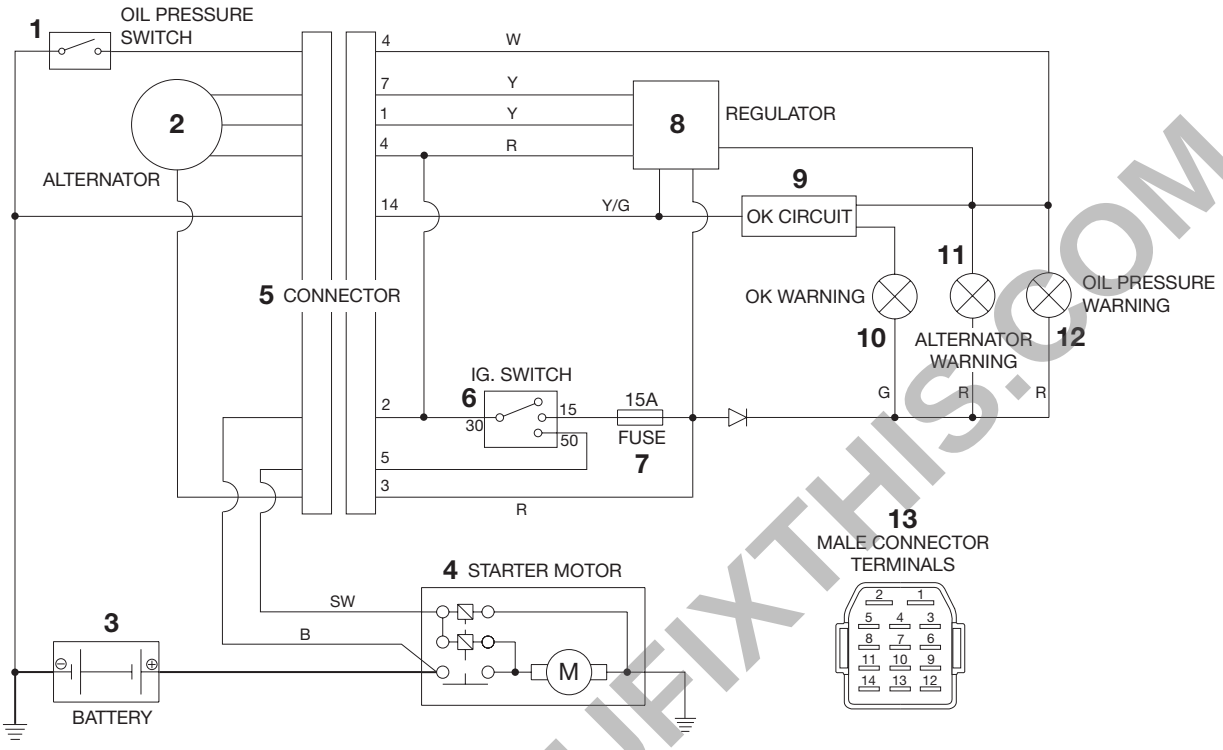


Fig 2.

Key

1	Oil Pressure Switch
2	Alternator
3	Battery
4	Starter Motor
5	Connector
6	Starter Switch
7	Fuse
8	Voltage Regulator
9	OK Warning Circuit
10	OK Warning Light
11	Alternator Warning Light
12	Oil pressure Warning Light
13	Male Connector Terminals

Note: *Fuse item 7 is accessible by removing the cover at the back of the starter switch box.*

Wire Colours

R	Red
Y	Yellow
G	Green
B	Blue
W	White
Y/G	Yellow/Green
SW	Black

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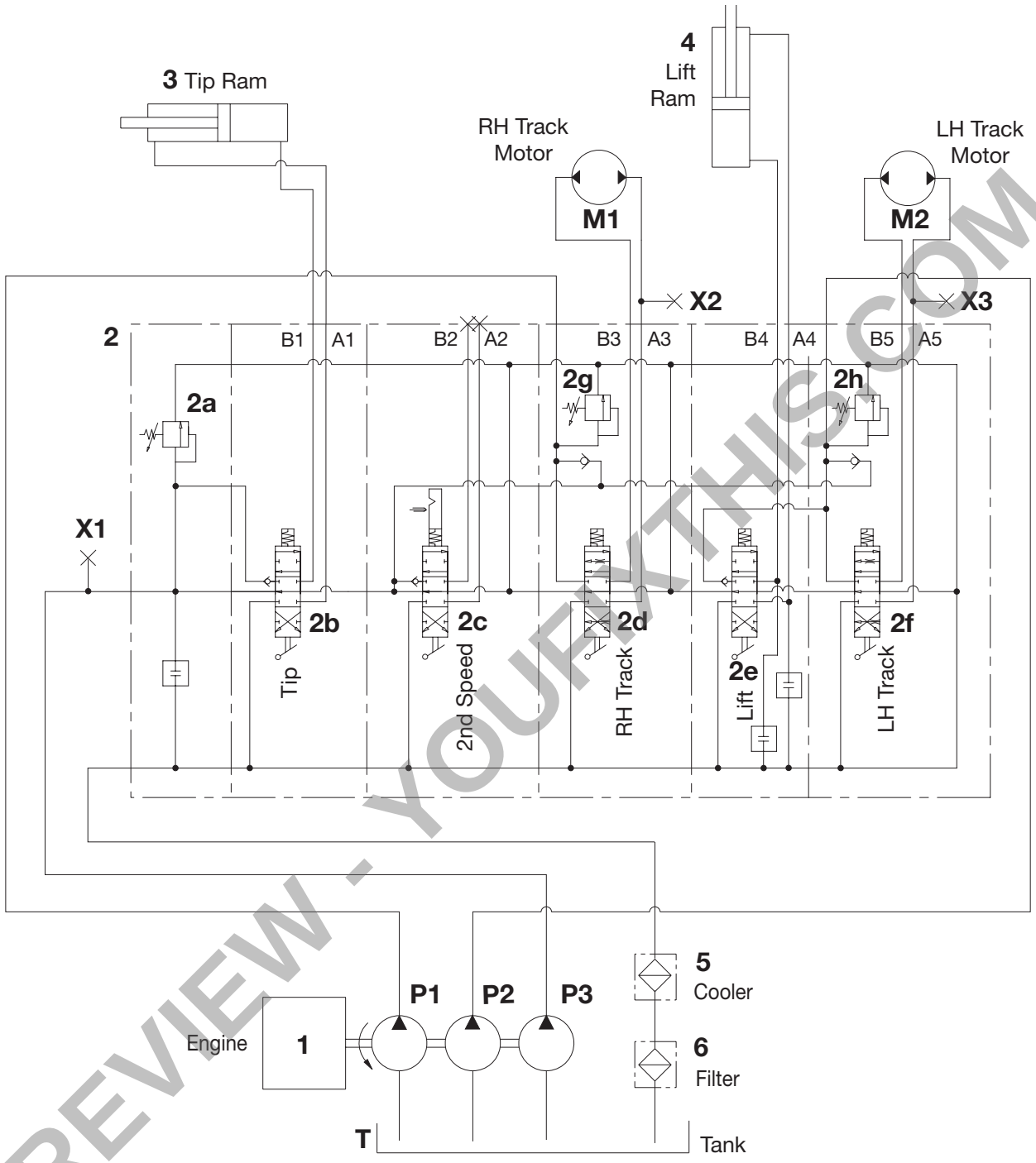


Fig 8.

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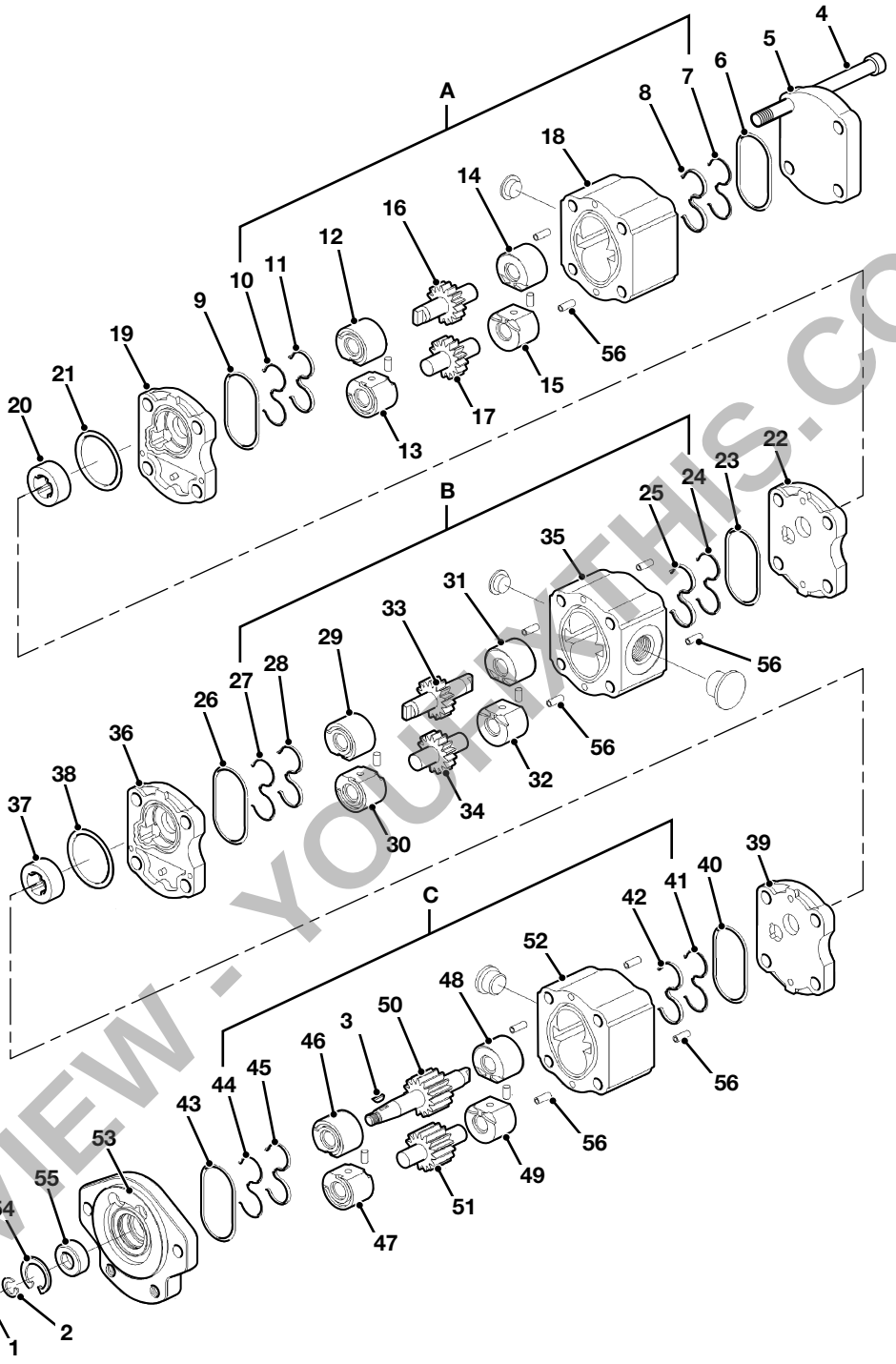


Fig 3.

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Zinc Plated Fasteners and Dacromet Fasteners

Table 2. Torque Settings - UNF Grade 'S' Fasteners

Bolt Size		Hexagon (A/F)	Condition 1			Condition 2		
in.	mm	in.	Nm	kgf m	lbf ft	Nm	kgf m	lbf ft
1/4	6.3	7/16	11.2	1.1	8.3	10.0	1.0	7.4
5/16	7.9	1/2	22.3	2.3	16.4	20.0	2.0	14.7
3/8	9.5	9/16	40.0	4.1	29.5	36.0	3.7	26.5
7/16	11.1	5/8	64.0	6.5	47.2	57.0	5.8	42.0
1/2	12.7	3/4	98.00	10.0	72.3	88.0	9.0	64.9
9/16	14.3	13/16	140.0	14.3	103.2	126.0	12.8	92.9
5/8	15.9	15/16	196.0	20.0	144.6	177.0	18.0	130.5
3/4	19.0	1 1/8	343.0	35.0	253.0	309.0	31.5	227.9
7/8	22.2	1 15/16	547.0	55.8	403.4	492.0	50.2	362.9
1	25.4	1 1/2	814.0	83.0	600.4	732.0	74.6	539.9
1 1/8	31.7	1 7/8	1181.0	120.4	871.1	1063.0	108.4	784.0
1 1/4	38.1	2 1/4	1646.0	167.8	1214.0	1481.0	151.0	1092.3

Table 3. Torque Settings - Metric Grade 8.8 Fasteners

Bolt Size		Hexagon (A/F)	Condition 1			Condition 2		
ISO Metric Thread	mm	mm	Nm	kgf m	lbf ft	Nm	kgf m	lbf ft
M5	5	8	5.8	0.6	4.3	5.2	0.5	3.8
M6	6	10	9.9	1.0	7.3	9.0	0.9	6.6
M8	8	13	24.0	2.4	17.7	22.0	2.2	16.2
M10	10	17	47.0	4.8	34.7	43.0	4.4	31.7
M12	12	19	83.0	8.5	61.2	74.0	7.5	54.6
M16	16	24	205.0	20.9	151.2	184.0	18.8	135.7
M20	20	30	400.0	40.8	295.0	360.0	36.7	265.5
M24	24	36	690.0	70.4	508.9	621.0	63.3	458.0
M30	30	46	1372.0	139.9	1011.9	1235.0	125.9	910.9
M36	36	55	2399.0	244.6	1769.4	2159.0	220.0	1592.4

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Link Removal

1 Remove the skip ⇨ *Skip (B-3)*.

2 Position the mechanism to allow access to components and place supports under the arms. Stop the engine.

3 Remove the tilt ram ⇨ *Tilt Ram (E-38)*.

4 Remove nut **1** and drive out pivot pin **2** securing the link **3** to the inner arms and the lift ram. Take care to support the lift ram.

5 Remove nut **4** and drive out pivot pin **5** securing the link to the outer arms **6**.

6 Lift the link away from the machine.

Link Replacement

1 Position the link **3** on the machine and fit pivot pin **5** to secure the link to the outer arms. taking care to locate the locking tab. Fit and tighten nut **4**.

2 Fit pivot pin **2** to secure the link to the inner arms and the lift ram, taking care to locate the locking tab. Fit and tighten nut **1**.

3 Refit the tilt ram.

4 Refit the skip.

Outer Arms Removal

1 Remove the skip.

2 Remove the link (see above).

3 Place a sling around the outer arms **6** and take the weight of the arms.

4 Remove nut **7** and drive out pivot pin **8** securing the outer arms to the mainframe.

5 Lift the outer arms clear of the machine.

Outer Arms Replacement

1 Position the outer arms **6** onto the machine and fit pivot pin **8** to secure the arms to the mainframe, taking care to locate the locking tab. Fit and tighten nut **7**.

2 Refit the link (see above).

3 Refit the skip.

Inner Arms Removal

1 Remove the skip.

2 Remove the tilt ram, link **3** and outer arms **6** (see above).

3 Cut the cable ties **9** securing the tilt ram hoses to the inner arms and tie the hoses up clear of the area.

4 Remove nut **10** and drive out pivot pin **11** securing the inner arms **12** to the mainframe.

5 Lift the inner arms **12** clear of the machine.

Inner Arms Replacement

1 Position the inner arms **12** onto the machine and fit pivot pin **11** to secure the arms to the mainframe, taking care to locate the locking tab. Fit and tighten nut **10**.

2 Refit the outer arms **3**, link **8** and tilt ram (see above).

3 Secure the tilt ram hoses to the inner arms with new cable ties **9**.

4 Refit the skip.

Bump Stop Removal

1 Unscrew and remove nut **13** and spring washer **14**.

2 Remove bump stop **15**.

Bump Stop Replacement

1 Fit bump stop **15** onto the outer arms and secure with spring washer **14** and nut **13**.

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Technical Data

All Engines

Specifications

Engine - Honda Petrol	
Max. engine speed with no load	3400 r/min
Fuel tank	5.5 litres (1.2 gal)
Engine - Yanmar Diesel	
Max. engine speed with no load	3200 r/min
Fuel tank	3.5 litres (0.77 gal)
Engine - Lombardini Diesel	
Max. engine speed with no load	3100 r/min
Fuel tank	4.5 litres (0.99 gal)

For further information refer to the engine manufacturer's specification according to engine fitted.

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