



Vi057-6



Operating weight	5485 kg
Engine	4TNV84T
Digging force (arm)	24,4 kN
Digging force (bucket)	41,9 kN

No compromise between compactness and power



COMPACTNESS

Yanmar, inventor of the ViO concept, has an unmatched experience in developing Zero Tail Swing excavators.



NEW BOOM DESIGN

New design with a box structure in order to improve durability.



POWERFUL YANMAR ENGINE

Latest version of Yanmar TNV engines: turbocharged 4-cylinder engine with direct injection to improve performance, fuel consumption and emission levels.



BEST COMPONENTS

Developed in Japan with renowned suppliers for top quality. Design and performance of the components made for heavy-duty job sites and long service life.



EASE OF MAINTENANCE

5 hoods or openings which allow easy access for components maintenance. Fast and easy daily checks or servicing.



CABIN

Upgraded operator station: increased leg room, universal design, new electronic instrumentation, improved ergonomics and greatly improved noise level.



EASY OPERATION

Control levers ideally located for exceptional movement precision. Double adjustable proportional control of both auxiliary circuits. Standard equipment also includes an "auto-deceleration" feature, and an "Eco-Mode" to improve fuel consumption.





HIGH PERFORMANCE

Upgrading of the powerline components (engine, hydraulic pump, control valve); this will allow Yanmar customers to perform heavy-duty jobs in confined spaces.



EXCELLENT STABILITY

Robust X-frame design of the undercarriage, increased operating weight and new boom design: impressive level of stability, especially on the side.



WORKGROUP

New design of the workgroup, with changed kinematics and structure of the boom. "Master Pin" developed for better durability, longer service life and an improved TCO.



UNMATCHED COMPACTNESS

THE Vi057-6 BENEFITS FROM YANMAR UNIQUE EXPERIENCE IN DEVELOPING ZERO TAIL SWING EXCAVATORS. SINCE THE INVENTION OF THE ViO CONCEPT IN 1995, YANMAR HAS REMAINED THE LEADER IN DESIGNING THE MOST COMPACT EXCAVATORS.



The Vi057-6 is probably the most compact excavator in its class, providing Yanmar customers with true peace of mind, especially in urban environment where space is limited.

The new design of the Vi057-6 boom also offers a very compact turning radius.

ADVANTAGES OF THE ViO DESIGN

- + Improved safety for both the operator and the side workers: critical on the jobsites.
- + Rear blind spot reduced to a minimum: enhances the safety for the workers around the machine.

NEW BOOM DESIGN

If the length of the boom stays at 2950 mm, its form has been radically changed, improving the lifting force of the Vi057-6 by 10 %.

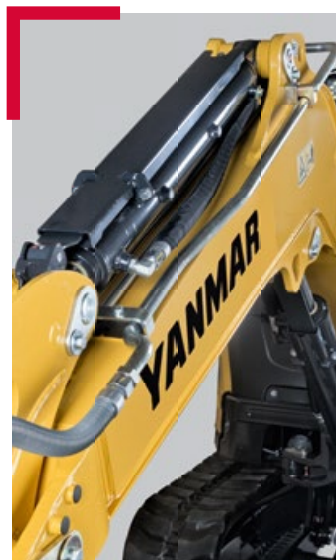
This new design also reduces the weight of the structure by 40 kg and increases the stability of the machine.

The box type structure of the boom enhances its robustness and therefore its durability and service life. The base and the swing post of the boom have been strengthened, which improves its service life even more and reduces its Total Cost of Ownership.



THE BEST BOOM AND ARM PROTECTION ON THE MARKET

The Vi057-6 benefits from a unique and complete protection of all its boom, arm and bucket cylinders. All cylinder tubes and rods are protected by a spring type steel plate, which reduces drastically the Total Cost of Ownership of the machine.



PERFORMANCE

The Vi057-6 benefits from an improved powerline: the combination of the new more powerful engine, the hydraulic pumps (+ 14 %) and a new control valve improve the cycle-times by more than 10 %.

VIPPS HYDRAULIC CIRCUIT (ViO PROGRESSIVE 3 PUMP SYSTEM)

The hydraulic circuit of the Vi057-6 has an aggregated power regulation equipped with two variable flow piston pumps and a multiple combination directional control valve. Pumps engage automatically depending on the performed operation, providing greater ease of use for the operator. On one hand, the combination of the pump flows can increase the work speed and on the other hand, the system allows smooth and simultaneous performance of all the operations, even while traveling.



EASY OPERATION

ADJUSTABLE PROPORTIONAL CONTROL OF THE AUXILIARY CIRCUITS

Standard equipment of the Vi057-6 includes an auxiliary hydraulic circuit. It is operated via a proportional control located on the joystick which adapt the flow and the direction of the oil flow. Additionally the circuit has an easy-to-operate potentiometer which adjusts the oil flow to the optimal requirement for each and every attachment.

TRANSMISSION

The Vi057-6 benefits also from a drive motor developing 10% more torque, improving cycle times and productivity, especially in levelling applications. Standard equipment also includes the new "automatic 2-speed" drive motors which shift automatically up and down depending upon the effort required. The operator is automatically provided with the best solution in terms of speed or pushing force, making operation easier and improving the operator comfort.

POWERFUL YANMAR ENGINE

The Vi057-6 benefits from the most advanced technology of the leading manufacturer of industrial diesel engines.

The 48,4 HP TNV engine is equipped with direct injection to create clean burning power. It has fully-electronic control to provide the Vi057-6 with total intelligent engine control. The 4TNV84T of the Vi057-6 is equipped with a turbo charger improving power, fuel efficiency and torque. This choice allows to reduce the rpm by 200 rpm and improves drastically the noise level for the operator and the bystanders.

The design of the Vi057-6 has foreseen to allow the integration of the new Stage V Ready engine, the 4TNV86CT-PBV, which Yanmar will propose in 2017.



ECO-MODE

The Eco-Mode effectively controls the motor speed which is reduced by 300 rpm, thus allowing a very low fuel consumption.



AUTO-DECELERATION

The engine drops back to idle if the operator doesn't touch the operating levers for 4 seconds. Environmental performance (noise and emissions) and fuel consumption are even more improved.



STABILITY

UNIQUE UNDERCARRIAGE

The X-shaped box-section structure of the undercarriage provides excellent torsional stiffness. The frame is designed for maximum durability.

All the components of the undercarriage have been upgraded:

- + Increase of the idler width by 25%
- + Increase of the track rollers diameter by 14% and width by 13%
- + Increase of the sprocket width by 29%

These improvements increase the durability and the service life of the machine and reduce its TCO.

This new undercarriage design and an optimized mass distribution contribute to improve the stability of the Vi057-6.



MACHINE HEIGHT

The redesign of the undercarriage contributes to reduce the machine height to an optimal 2,54 m, which facilitates transportation of the machine. It also improves the ground clearance by 28 % to 345 mm.



SAFETY

The structure of the Vi057-6 cabin has been designed to meet the ROPS (Roll-Over Protective Structure) certification as well as the FOPS (Falling Object Protective Structure) level 1.

LED LIGHTING: EFFICIENCY AND LOW CONSUMPTION

In order to work safely, efficiently and with accuracy in the darkness, the Vi057-6 is equipped in standard with 1 LED light positioned in the inner part of the boom. The LED technology provides a powerful light while reducing energy consumption which increases the service life of the battery. In option, two LED lights can be added at the front of the cabin as well as one LED rear light and a beacon.



MAINTENANCE

EASY ACCESS

Daily maintenance has to be performed easily. The engine bonnet and the right-hand sidecover are easy to open. This gives an access to all major elements: air filter, radiator, refueling pump, battery, fuel tank, hydraulic oil tank alternator, engine oil dipstick, water separator, coolant level, etc...



LONG SERVICE INTERVALS

Yanmar excavators are designed for working and therefore we increase the service intervals.



BEST COMPONENTS

All Vi057-6 components are designed in order to make it reliable, durable and capable of performing demanding work.

COMFORT

SPACIOUS AND COMFORTABLE CABIN

Putting the operator in the center of its design initiatives, Yanmar developed the “Universal Design” concept which is focused on ergonomics like door handle, handrails, door lock and hood handle. Combined to an increased leg room, it enables to improve the comfort and safety of the operator.



IMPROVED AIR CIRCULATION

The air distribution and circulation in the cabin has been improved through the optimal location of six vents. The defrost function ensures perfect demisting of the cabin. A fresh air / recirculation function has been added and both air filters are easily accessible. These changes improve greatly the operator's comfort, especially in hot weather conditions.

Available in option, the Vi057-6 air conditioning has also been greatly improved through the increase of the cooling performance of the unit and increase of the ventilation performance.

ALL-AROUND VISIBILITY

The Vi057-6 design provides an ergonomic environment, excellent visibility and exceptional safety. The shape of the cabin provides the operator with an optimal 360° visibility in order to improve the safety on the jobsite and to make work more efficient.

The Vi057-6 is equipped with three mirrors to help the operator control the work area without moving from his seat.



SILENT CABIN

The Yanmar engineers have put a lot of emphasis on innovative ways to reduce the noise level. They succeeded in reducing the noise level by 3 dB(A). These changes impact the comfort level of the operator.

COMFORTABLE ADJUSTABLE SEAT

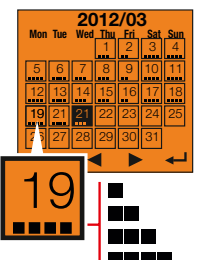
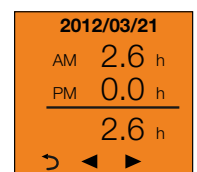
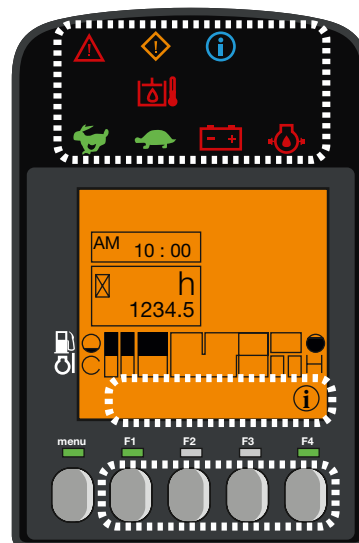
The air suspension seat has numerous possibilities of adjustment to give the optimal seating position. The instrumentation panel has been redesigned as well as the armrests, which further enhance the operator's comfort.



DIGITAL INTERFACE

The Vi057-6 is equipped with a digital interface which informs the operator in real time about the status of his machine. Perfectly integrated into the right hand console, the 3.3" screen provides excellent visibility. The interface provides the customer with useful information through LED lamps, or indications about important elements like fuel consumption, fuel gauge, coolant temperature gauge, etc...

The interface assists the customer for maintenance intervals and to program such interventions. It also works as a diagnostic tool in case of malfunction by sending an error code and an information icon on the display.



EQUIPMENT



[STANDARD EQUIPMENT]

PERFORMANCE

4TNV84T Yanmar diesel | Direct Injection | Engine Control Unit (ECU) | Eco-Mode | Auto-Deceleration System | VIPPS Hydraulic system (ViO Progressive 3 Pump System) | Auxiliary circuit with adjustable proportional control by potentiometer to arm end | Automatic 2nd speed | Filter on steering hydraulic circuit | External hydraulic oil gauge | 1 LED light integrated into the boom

COMFORT

LCD interface | Adjustable and reclining seat with fabric covers, air suspension and headrest | Adjustable wrist support | Foot rests | Wide travel pedals | Windshield with 2 fully retractable parts | Sliding double right side window | Transparent upper front part | Wipers | Windshield washer | Automatic ceiling lamp | 2 x 12V outlets | Storage boxes | Secure document storage | Holder

SAFETY AND DURABILITY

Handrails | Safety lever | Seat belt with retractor | Evacuation hammer | Anchor points | 3 mirrors | Horn | Blade cylinder supply hose into two parts | Complete protection of the cylinders (boom, arm and blade) | Hoses protected by abrasion resistant sleeves | Lockable covers

MISCELLANEOUS

Fuel gauge | Toolbox | Toolkit | Grease pump

[OPTIONAL EQUIPMENT]

EQUIPMENT AND PERFORMANCE

Steel crawlers | Pads for steel crawlers | Long arm (+290 mm) | Additional counterweight (+195 kg) | 2nd auxiliary circuit with adjustable proportional control by potentiometer | Line high pressure 165 bar for hydraulic quick coupler with piloted safety devices (double effect) | Quick couplers | Bio oil | 2 LED lights at the front of the cabin | 1 LED beacon | Kit 1 rear LED light + 1 beacon | Improved fuel filtration

COMFORT AND EASE OF USE

Reversible air conditioning | Adjustable and reclining seat with ski covers, air suspension and headrest | Seat Cover | Radio | Electric refueling pump | Central greasing

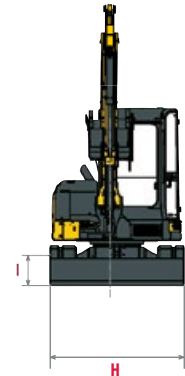
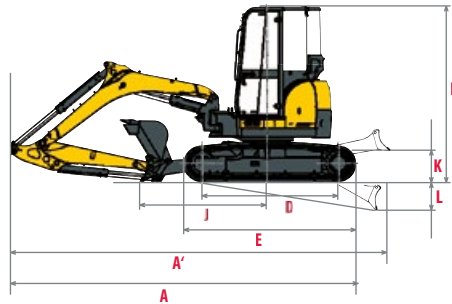
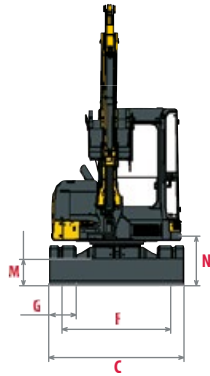
SECURITY AND DURABILITY

Safety valves for lifting + overload warning | FOPS 1 front protection | Anti-theft device (key/keyboard) | GPS Tracking | Translation alarm

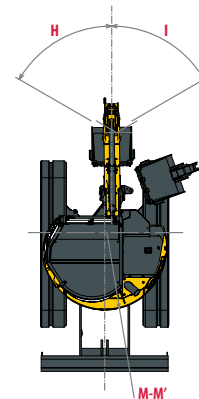
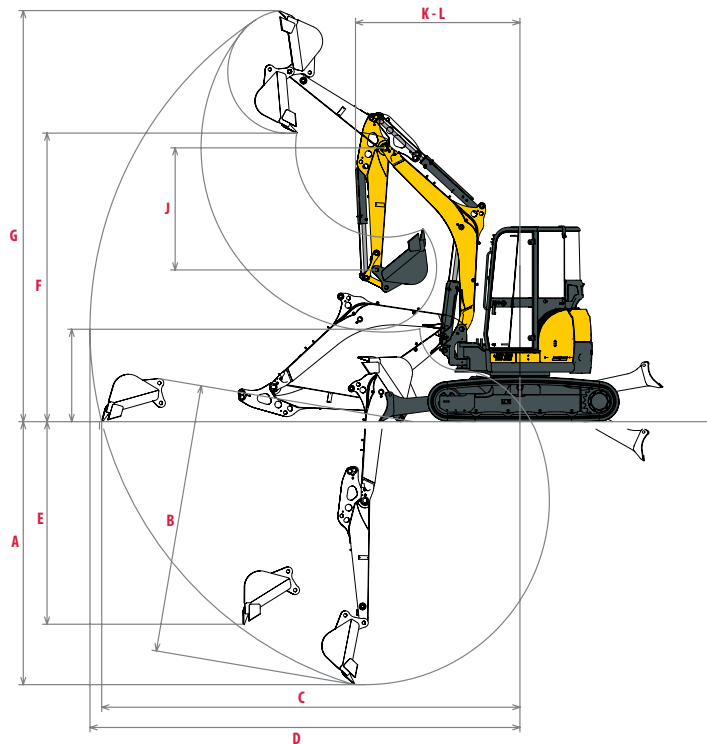
[ATTACHMENTS]

Yanmar gives you the attachment that fit your needs and match the safety standards in force in your country: mechanical quick coupler, hydraulic quick coupler, ditching bucket, swinging bucket, backhoe bucket, hydraulic breaker...

DIMENSIONS



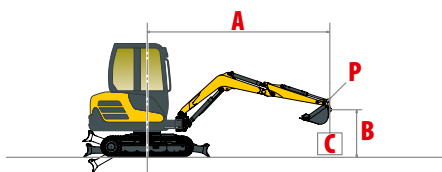
A Overall length	5510 / 5600 * mm	H Overall blade width	1970 mm
A' Overall length with blade at the back	6070 / 6160 * mm	I Overall blade height	400 mm
B Overall height	2540 mm	J Blade distance	1890 mm
C Overall width	1990 mm	K Max. lifting height above the ground	500 mm
D Length of track on ground	2070 mm	L Max. lowering depth from the ground	540 mm
E Undercarriage length	2590 mm	M Minimum ground clearance	345 mm
F Lane	1590 mm	N Ground clearance under counterweight	625 mm
G Track width	400 mm		



A Max. digging depth - Blade lifted	3710 / 4000 * mm	H Boom swinging base to left	68°
B Max. digging depth - Blade lowered	3920 / 4210 * mm	I Boom swinging base to right	68°
C Max. digging reach on ground	5950 / 6230 * mm	J Arm length	1650 / 1940 * mm
D Max. digging reach	6100 / 6370 * mm	K Front turning radius	2180 / 2320 * mm
E Max vertical wall	2930 / 3210 * mm	L Front turning radius with boom swing	1760 / 1880 mm
F Max. dumping height	4240 / 4420 * mm	M Rear turning radius	995 mm
G Max. cutting height	5900 / 6080 * mm	M' Rear turning radius with additional counterweight	1070 mm

* With long arm

LIFTING FORCE



Tipping load, rating over front



Tipping load, rating over side 90°

Standard arm															
Blade on ground								Blade above ground							
A	(A=)	Max.	5 m	4 m	3 m	2 m		(A=)	Max	5 m	4 m	3 m	2 m		
B															
4 m	3775	940 *1110	- -	*1095 *1095	- -	- -		3775	910 *1110	- -	*1095 *1095	- -	- -		
3 m	4465	725 *1140	- -	*1140 *1140	- -	- -		4465	725 745	- -	*1140 *1140	- -	- -		
2 m	4795	630 *1160	695 *1190	970 *1355	*1715 *1715	- -		4795	630 690	660 765	940 1060	*1715 *1715	- -		
1 m	4860	610 *1205	665 *1265	910 *1570	1315 *2285	- -		4860	600 670	655 745	900 1000	1315 1500	- -		
0 m	4670	630 *1235	640 *1275	845 *1670	1305 *2430	2100 *3170		4670	630 715	630 725	845 940	1245 1430	2020 2315		
-1 m	4180	715 *1265	- -	860 *1600	1235 *2315	2180 *3265		4180	695 775	- -	860 940	1245 1400	2160 2385		
-2 m	3225	1000 *1195	- -	- -	1255 *1775	- -		3225	990 1060	- -	- -	1265 1410	- -		

Standard arm, additional counterweight															
Blade on ground								Blade above ground							
A	(A=)	Max	5 m	4 m	3 m	2 m		(A=)	Max	5 m	4 m	3 m	2 m		
B															
4 m	4290	1000 *1110	- -	*1095 *1095	- -	- -		4290	970 *1110	- -	*1095 *1095	- -	- -		
3 m	4890	770 *1140	- -	*1140 *1140	- -	- -		4890	780 810	- -	*1140 *1140	- -	- -		
2 m	5190	690 *1160	750 *1190	1040 *1355	*1715 *1715	- -		5190	680 760	720 820	1010 1140	*1715 *1715	- -		
1 m	5250	670 *1205	720 *1265	980 *1570	1430 *2285	- -		5250	650 730	700 800	970 1090	1430 1630	- -		
0 m	5080	680 *1235	700 *1275	920 *1670	1420 *2430	2330 *3170		5080	680 770	690 780	910 1030	1350 1560	2240 2580		
-1 m	4650	770 *1265	- -	930 *1600	1340 *2315	2400 *3265		4650	760 840	- -	930 1020	1360 1530	2380 2650		
-2 m	3840	1070 *1165	- -	- -	1370 *1775	- -		3840	1070 1150	- -	- -	1370 1540	- -		

Long arm															
Blade on ground								Blade above ground							
A	(A=)	Max	5 m	4 m	3 m	2 m		(A=)	Max	5 m	4 m	3 m	2 m		
B															
5 m	3640	*1040 *1040	- -	- -	- -	- -		3640	*1040 *1040	- -	- -	- -	- -		
4 m	4630	770 *960	- -	*930 *930	- -	- -		4630	760 *960	- -	*930 *930	- -	- -		
3 m	5180	640 *1010	680 *1000	*1000 *1000	- -	- -		5180	630 710	670 760	*1000 *1000	- -	- -		
2 m	5460	570 *1040	670 *1070	940 *1210	*1530 *1530	- -		5460	560 610	650 720	930 1010	*1530 *1530	- -		
1 m	5526	550 *1070	640 *1160	890 *1450	1320 *2070	- -		5526	530 590	620 690	870 960	1280 1500	- -		
0 m	5360	560 *1110	620 *1230	830 *1620	1240 *2360	2050 *3150		5360	550 620	610 670	820 930	1220 1410	2020 2230		
-1 m	4960	630 *1160	- -	850 *1610	1250 *2290	2090 *3390		4960	620 680	- -	820 910	1220 1360	2060 2410		
-2 m	4230	770 *1180	- -	830 *1320	1190 *1920	1980 *3000		4230	750 840	- -	810 910	1170 1320	1970 2500		

Long arm, additional counterweight															
Blade on ground								Blade above ground							
A	(A=)	Max	5 m	4 m	3 m	2 m		(A=)	Max	5 m	4 m	3 m	2 m		
B															
5 m	3640	*1040 *1040	- -	- -	- -	- -		3640	*1040 *1040	- -	- -	- -	- -		
4 m	4630	840 *960	- -	*930 *930	- -	- -		4630	830 *960	- -	*930 *930	- -	- -		
3 m	5180	700 *1010	740 *1000	*1000 *1000	- -	- -		5180	690 770	730 830	*1000 *1000	- -	- -		
2 m	5460	620 *1040	730 *1070	1020 *1210	*1530 *1530	- -		5460	610 670	710 790	1010 1100	*1530 *1530	- -		
1 m	5520	600 *1070	700 *1160	970 *1450	1440 *2070	- -		5520	580 650	680 760	950 1050	1400 1640	- -		
0 m	5360	620 *1110	680 *1230	910 *1620	1360 *2360	2290 *3150		5360	610 680	670 740	900 1020	1340 1550	2260 2510		
-1 m	4960	690 *1160	- -	930 *1610	1370 *2290	2330 *3390		4960	680 750	- -	900 1000	1340 1500	2300 2690		
-2 m	4230	850 *1180	- -	910 *1320	1310 *1920	2220 *3000		4230	830 920	- -	890 1000	1290 1460	2210 2780		

[The data in this table represents the lifting capacity in accordance with IOS 10567. They do not include the weight of the bucket and correspond to 75% of the maximum static tipping load of the 87% of the hydraulic lifting capacity. Data marked with * are the hydraulic limits of the lifting force.]

SPECIFICATIONS

[WEIGHT +/- 2% (CE STANDARDS)]

	Weight	Ground pressure
Operating weight (rubber tracks)	5485 kg	0,30 kgf/cm ²
Transport weight (rubber tracks)	5410 kg	0,30 kgf/cm ²
With steel tracks	5515 kg	0,31 kgf/cm ²
With additional counterweight	+ 195 kg	-

[ENGINE]

Type	4TNV84T-ZMBV
Fuel	Diesel
Net Power	32,6 kW (at 2200 rpm)
Gross Power	33,4 kW (at 2200 rpm)
Displacement	1 995 l
Maximum torque	149,5 - 162,8 N.m
Cooling	Water cooling
Starter	12 V - 2,3 kW
Battery	12 V - 100 Ah
Alternator	12 V - 55 A

[HYDRAULIC SYSTEM]

Maximum pressure	245 bar
1 double piston pump with variable flow	2 x 45,8 l.min ⁻¹
1 gear pump	37 l.min ⁻¹
1 gear pump for pilot line	10,8 l.min ⁻¹

PTO	Theoretical data at 2200 rpm	
	Pressure (bar)	Flow (l.min ⁻¹)
2 way	0 - 245	37 - 82,8
1 way	0 - 245	37 - 82,8



Oil flow decreases as the pressure increases

[PERFORMANCE]

Travel speed	2,2 - 4,4 km/h
Rotation speed	10 rpm
Digging force (arm)	24,4 / 22,2 kN (with long arm)
Digging force (bucket)	41,9 kN
Traction force	55,8 kN
Gradability	30°
Noise level (2000/14/CE & 2005/88/CE)	79 dB(A) / 94 dB(A)

[UNDERCARRIAGE]

Number of top rollers	1
Number of bottom rollers	4
Track tensioning system	Grease adjuster

[CAPACITIES]

Fuel tank	66 l
Coolant	7,1 l
Engine oil	7,4 l
Hydraulic circuit	74 l
Hydraulic tank	38 l

MAINTENANCE FREQUENCY

[Change engine oil and filter: 50 hours (1st) / 500 hours (2nd)] [Change fuel filter: 250 hours] [Change hydraulic oil: 1000 hours]
 [Change hydraulic filter: 50 hours (1st) / 500 hours (2nd)] [Change cooling fluid: 2000 hours]



YANMAR



Yanmar Construction Equipment Europe
25, rue de la Tambourine, 52100 SAINT-DIZIER
France

ycee-contact@yanmar.com

www.yanmarconstruction.eu



www.johnstonplant.com | sales@johnstonplant.com

GB_Vi057-6_1016

Non contractual pictures - Printed in France - The manufacturer reserves the right to modify the information in this catalogue without notice. For further information, please contact your authorized Yanmar Construction Equipment dealer.