



Volvo Construction Equipment

VOLVO SKID STEER AND COMPACT TRACK LOADERS

ENVIRONMENTAL DECLARATION



Environmental Declaration

Skid Steer and Compact Track Loaders

The following information is specified by the manufacturer and applies to machines when they are delivered/leave the factory. For other technical information, see product specification as well as the Operator's Manual.

Manufacturer:

Volvo Construction Equipment
312 Volvo Way
17257, Shippensburg
North America

Tier 3 Models

Model	Unit	MC60C	MC70C	MC85C	MC95C	MC105C
Engine type		Perkins 404D-22	Perkins 404D-22T	Perkins 404D-22T	Perkins 404D-22T	Perkins 404D-22T
Engine power gross	kW	35.7	44.7	44.7	44.7	44.7
	metric	hp	48.5	60.8	60.8	60.8
	Imperial	hp	47.9	59.9	59.9	59.9
Engine power net	kW	35.1	43.9	43.9	43.9	43.9
	metric	hp	47.7	59.7	59.7	59.7
	Imperial	hp	47.1	58.9	58.9	58.9
Model	Unit	MC110C	MC115C	MC125C	MC135C	MC155C
Engine type		JCB Dieselmax TC-55	JCB Dieselmax TC-55	JCB Dieselmax TC-55	JCB Dieselmax TC-68	JCB Dieselmax TC-68
Engine power gross	kW	55	55	55	68.6	68.6
	metric	hp	74.8	74.8	74.8	93.3
	Imperial	hp	73.8	73.8	73.8	92
Engine power net	kW	54.1	54.1	54.1	67.7	67.7
	metric	hp	73.6	73.6	73.6	92.1
	Imperial	hp	72.6	72.6	72.6	90.8
Model	Unit	MCT70C	MCT85C	MCT95C	MCT110C	MCT125C
Engine type		Perkins 404D-22T	Perkins 404D-22T	Perkins 404D-22T	JCB Dieselmax TC-55	JCB Dieselmax TC-55
Engine power gross	kW	44.7	44.7	44.7	55	55
	metric	hp	60.8	60.8	60.8	74.8
	Imperial	hp	59.9	59.9	59.9	73.8
Engine power net	kW	43.9	43.9	43.9	54.1	54.1
	metric	hp	59.7	59.7	59.7	73.6
	Imperial	hp	58.9	58.9	58.9	72.6
Model	Unit	MCT135C	MCT145C			
Engine type		JCB Dieselmax TC-68	JCB Dieselmax TC-68			
Engine power gross	kW	68.6	68.6			
	metric	hp	93.3			
	Imperial	hp	92			
Engine power net	kW	67.7	67.7			
	metric	hp	92.1			
	Imperial	hp	90.8			

Engine/emissions

The engines are certified according to the following:

Engine/emissions

EPA-T4i (EU St3A) - MC60C / MC70C / MC85C / MC95C / MC105C / MC110C / MC115C / MC125C / MCT70C / MCT85C / MCT95C / MCT110C / MCT125C

EPA-T3 (EU St3A) - MC135C / MC155C / MCT135C / MCT145C

In order to achieve the above legal requirements, no after-treatment of exhausts is required (catalytic converter, particle filter, etc.). Exhaust emissions are measured as specific emissions in g/kWh according to ISO 8178-1 and ISO8178-4, cycle C1. Every engine is certified within an engine family.

Tier 4 Models

Model	Unit	MC60C	MC70C	MC85C	MC95C	MC105C
Engine type		Kohler KDI 1903 TCR	Kohler KDI 1903 TCR	Kohler KDI 1903 TCR	Kohler KDI 2054 TCR	Kohler KDI 2054 TCR
Engine power gross	kW	36	42	42	46	46
	metric hp	48.9	57.1	57.1	62.5	62.5
	Imperial hp	48.3	56.3	56.3	61.7	61.7
Engine power net	kW	35.3	41.1	41.1	45.1	45.1
	metric hp	48	55.9	55.9	61.3	61.3
	Imperial hp	47.3	55.1	55.1	60.5	60.5
Model	Unit	MC110C	MC115C	MC125C	MC135C	MC155C
Engine type		JCB Ecomax TCAE-55	JCB Ecomax TCAE-55	JCB Ecomax TCAE-55	JCB Ecomax TCAE-55	JCB Ecomax TCAE-55
Engine power gross	kW	55	55	55	55	55
	metric hp	74.8	74.8	74.8	74.8	74.8
	Imperial hp	73.8	73.8	73.8	73.8	73.8
Engine power net	kW	54.1	54.1	54.1	54.1	54.1
	metric hp	73.6	73.6	73.6	73.6	73.6
	Imperial hp	72.6	72.6	72.6	72.6	72.6
Model	Unit	MCT70C	MCT85C	MCT95C	MCT110C	MCT125C
Engine type		Kohler KDI 1903 TCR	Kohler KDI 2054 TCR	Kohler KDI 2054 TCR	JCB Ecomax TCAE-55	JCB Ecomax TCAE-55
Engine power gross	kW	42	46	46	55	55
	metric hp	57.1	62.5	62.5	74.8	74.8
	Imperial hp	56.3	61.7	61.7	73.8	73.8
Engine power net	kW	41.1	45.1	45.1	54.1	54.1
	metric hp	55.9	61.3	61.3	73.6	73.6
	Imperial hp	55.1	60.5	60.5	72.6	72.6
Model	Unit	MCT135C	MCT145C			
Engine type		JCB Ecomax TCAE-55	JCB Ecomax TCAE-55			
Engine power gross	kW	55	55			
	metric hp	74.8	74.8			
	Imperial hp	73.8	73.8			
Engine power net	kW	54.1	54.1			
	metric hp	73.6	73.6			
	Imperial hp	72.6	72.6			

Environmental Declaration

Engine/emissions

The engines are certified according to the following:

Engine/emissions

EPA-T4f (EU St3A) - MC60C

EPA-T4 (EU St3B) - MC70C / MC85C / MC95C / MC105C / MCT70C / MCT85C / MCT95C / MC110C / MC115C / MC125C / MC135C / MC155C / MCT110C / MCT125C / MCT135C / MCT145C

On MC110C / MC115C / MC125C / MC135C / MC155C / MCT110C / MCT125C / MCT135C / MCT145C, in order to achieve the above legal requirements, no after-treatment of exhausts is required (catalytic converter, particle filter, etc.). Exhaust emissions are measured as specific emissions in g/kWh according to ISO 8178-1 and ISO8178-4, cycle C1.

On MC60C / MC70C / MC85C / MC95C / MC105C / MCT70C / MCT85C / MCT95C, in order to achieve the above legal requirements, only maintenance-free Diesel Exhaust Catalyst (DOC) is required. Exhaust emissions are measured as specific emissions in g/kWh according to ISO 8178-1 and ISO8178-4, cycle C1.

Every engine is certified within an engine family.

Core values

Quality, safety and environmental care are Volvo's core values. They are designed from the beginning into the product's entire service life. This includes design and engineering, material selection, manufacturing processes, use and recycling.

Manufacturing

Many of our components and parts are purchased from external suppliers. Volvo Construction Equipment works closely with these suppliers in order to safeguard the environmental requirements for purchased components and parts.

Declarations

- Upholstery and other materials inside the cab do not contain mercury
- Plastics and other interior materials are fire classes in order to meet Volvo standard 5031,1
- The complete machine does not contain any mercury, cadmium or asbestos
- If the machine is equipped with air conditioning (option), refrigerant type R134A (1.8 – 2.2 kg) is used.

Paint and Surface Treatment

In order to reduce solvent emissions, the machines are painted using high solid paints. To reduce consumption of water and chemicals, cleaning and recirculation takes place during the pre-treatment processes in the factories.

Specification of paint

Main components	Paint type	Chlorine	Pre-treatment
Frame	Two-component	Yes	High pressure water with alkalic detergent
Cab	Two-component	Yes	Shot blast 2 1/2

Operator's environment

Machines with an enclosed cab may be equipped with a heater and air conditioning - this unit has an easily accessible filter to aid cleaning and replacement.

The cab is isolation mounted to the front, all machines are equipped with a suspension seat (mechanical as standard, air as optional), and the pods/seat support bar can be adjusted with/separately from the seat (optional). A boom suspension system is also available.

All machines are fitted with a seat belt (choice of 2-point, 3-point, 2", 3").

Guidelines for reducing Whole-Body-Vibrations (WBV) can be found in the Operating Techniques section of the Operators Manual.

Service

All machines are fitted with a remote engine oil drain, for easier draining and to reduce the risk of spillages.

To facilitate unintentional spills of other fluids and oils, there are specific access points for the hydraulic oil, fuel and chaincase oil, whilst the radiator is fitted with a drain hose to empty the coolant.

The fuel and hydraulic caps both seal tightly to prevent leaks in the event of a machine turn-over/rollover.

For service intervals and other maintenance, please see the applicable sections of the Operator's Manual.

Oils and fluids

Ethylene glycol coolant is filled at the factory.

For other oil and fluids, see the operator's manual.

Tires

Tires without high-aromatic oil (HA-oils) are available from our suppliers.

Recycling

Volvo Skid Steer Loaders are designed from the beginning to be recycled at the end of their useful life cycle. Materials can be reused again in new Volvo Skid Steer Loaders or other products. According to our calculations, dependent on the machine, 93-97% of the machine's operating weight is recyclable.

Most of our plastic parts are marked for recycling.

Environmental Declaration

Recycling

Materials included in the machine are distributed according to the table below. Weights are approximate:

	MC60C		MC70C		MC85C		MC95C		MC105C	
Weight	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
Steel & Iron	2 538	5,595	2 630	5,798	2 797	6,166	2 947	6,497	3 057	6,740
Copper	12	26	12	26	12	26	12	26	12	26
Aluminium	38	84	38	84	38	84	38	84	38	84
Lead Batteries	32	71	32	71	32	71	32	71	32	71
Glass	10	22	10	22	10	22	10	22	10	22
Polymer Materials & Rubber	31	68	31	68	31	68	31	68	31	68
Tyres / Tracks	87	192	87	192	87	192	87	192	87	192
Fluids. Oils and Chemicals	38	84	38	84	38	84	38	84	38	84
Other	5	11	5	11	5	11	5	11	5	11
Total *	2 791	6,153	2 883	6,356	3 050	6,724	3 200	7,055	3 310	7,297

	MC110C		MC115C		MC125C		MC135C		MC155C	
Weight	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
Steel & Iron	3 279	7,229	3 405	7,507	3 467	7,643	3 778	8,329	3 914	8,629
Copper	16	35	16	35	16	35	16	35	16	35
Aluminium	59	130	59	130	59	130	59	130	59	130
Lead Batteries	32	71	32	71	32	71	32	71	32	71
Glass	10	22	10	22	10	22	10	22	10	22
Polymer Materials & Rubber	41	90	41	90	41	90	41	90	41	90
Tyres / Tracks	116	255	116	255	116	255	116	255	116	255
Fluids. Oils and Chemicals	49	108	49	108	49	108	49	108	49	108
Other	6	13	6	13	6	13	6	13	6	13
Total *	3 608	7,954	3 734	8,232	3 796	8,368	4 107	9,054	4 243	9,354

	MCT70C		MCT85C		MCT95C		MCT110C		MCT125C	
Weight	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
Steel & Iron	3 248	7,161	3 347	7,379	3 519	7,758	4 150	9,149	4 389	9,676
Copper	12	26	12	26	12	26	16	35	16	35
Aluminium	38	84	38	84	38	84	59	130	59	130
Lead Batteries	32	71	32	71	32	71	32	71	32	71
Glass	10	22	10	22	10	22	10	22	10	22
Polymer Materials & Rubber	31	68	31	68	31	68	41	90	41	90
Tyres / Tracks	280	617	280	617	280	617	280	617	280	617
Fluids. Oils and Chemicals	35	77	35	77	35	77	49	108	49	108
Other	5	11	5	11	5	11	3	7	3	7
Total *	3 691	8,137	3 790	8,356	3 962	8,735	4 640	10,229	4 879	10,756

	MCT135C		MCT145C	
Weight	kg	lb	kg	lb
Steel & Iron	4 562	10,057	4 702	10,366
Copper	10	22	10	22
Aluminium	41	90	41	90
Lead Batteries	32	71	32	71
Glass	10	22	10	22
Polymer Materials & Rubber	33	72	33	72
Tyres / Tracks	400	882	400	882
Fluids. Oils and Chemicals	29	64	29	64
Other	3	7	3	7
Total *	5 120	11,287	5 260	11,595

* Varies depending on equipment, for example - high flow, tires, bucket and HVAC.

These material fractions can be recycled (material and energy recycling) where such recycling possibilities are available.

Producer responsibility

In most countries today, there is a producer responsibility for our products, applicable to components such as batteries, tires, etc. There are special regulations for these components.

For further information, contact your dealer.

Machine model: _____ Place for stamp

Delivery date: _____

Machine's serial number: _____

Engine Type: _____

Engine's manufacturing number: _____

VOLVO

Volvo Construction Equipment

www.volvoce.com