

off-HIGHWAY VEHICLES

INNOVATIONS 24.1













SOFTWARE INNOVATIONS

The new software version Jaltest 24.1 once again offers more improvements and innovations that consolidate this tool as a benchmark in all-makes diagnostics for commercial vehicles, agricultural equipment, OHW equipment, material handling equipment and vessels.

With the innovations of the graphic interface, it is possible to:

- Add new formats to the table cells and highlight data.
- Attach the diagnostics report to a Jaltest Feedback.
- Clear fault codes directly from the results of a system scan process.















MAKES AND MODELS

Take into account that this document is only a summary of the most relevant information of this new version. For further information, please visit Jaltest Report.

OHW - HEAVY EQUIPMENT

This version includes LJUGBY MASKIN and VÖGELE makes.

LIEBHERR

New models for self-propelled cranes.

XCMG

25 new models.

OHW - COMPACT EQUIPMENT

New makes such as LJUGBY MASKIN, MENZI MUCK, MULTIONE and VM LOADER, and new models available for BOBCAT, XCMG and YANMAR makes.

STATIONARY ENGINE

New models available for **CUMMINS, DEUTZ** and **SCANIA** makes.

MULTI-PURPOSE VEHICLE

This version includes new models in the **BUCHER** make.

DIAGNOSTICS AND SYSTEMS

Take into account that this document is only a summary of the most relevant information of this new version. For further information, please visit Jaltest Report.

It is important to note the development of new advanced actions such as the exhaust gas aftertreatment system checks in the **EMR5 EDC MD1** engine control system in **STAGE V Deutz** engines. This system is available for STATIONARY ENGINE or other makes such as **AMMAN**, **DYNAPAC** or **WEIDEMANN**.











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> STATIONARY ENGINE > DEUTZ > TCD 4.1 > EMR5 - EDC MD1, Electronic Diesel Control, Common Rail															
8		SYSTEM CHECKS \ EXHAUST GAS AFTERTREATMEN	T SYSTEM \ EGR SYSTEM TEST												
Ω	System technical data	2 EGR SYSTEM TEST, OPERATION CHECKING													
	Diagrams		EGR VALVE CLOSED, MEASURED VA	EGR VALVE OPEN, MEASURED VALUE	×										
	Maintenance data	ENGINE SPEED	1609	1606	rpm 7										
		VENTURI DIFFERENTIAL PRESSURE SENSOR	3	200	hPa										
10	Vehicle/vessel data	EXHAUST GAS RECIRCULATION TEMPERATURE	39	46	°C 💕										
36	Troubleshooting by symptoms	EXHAUST GAS PRESSURE, RETURN	459	157	hPa										
43	Releases and	NOX NITROGEN OXIDE SENSOR BEFORE THE SCR CATA	0	0	ppm										
	Procedures (TSBs)	ENGINE LOAD	25	24	96										
*/6	Component Replacement Guides														
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OHW - HEAVY EQUIPMENT

BOMAG

TCD 12.0 EMR4 EDC17 CV52 (*on SAE J1939*) engine control system, system checks, parameters and maintenance services.

CASE CE

New wiring diagram configurations available for **G Series** models.

CATERPILLAR

⊕ C-27 / C-32 (on SAE J1939) engine control system.

C-9.3B (*on SAE J1939*) engine control system, activations, checks and other advanced functions.

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> 0	HW - HEAVY EQUIPMENT	> CATERPILLAR > 990 Series > C-27 / C-32, J1939, Engine Control Module		<u>s</u> s	← Disc	onnect
		R PARAMETERS \ INJECTOR CODING				
Ω -{	System technical data Diagrams	THE INJECTOR CODES WILL BE DISPLAYED NEXT.			×	×
	Maintenance data	Search in the live data list			Q	?
1.	Vehicle/vessel data	INJECTOR CODE, CYLINDER 1	AB1234567891		ø	î 👩
36	Troubleshooting by symptoms	INJECTOR CODE, CYLINDER 2	AB1234567892		ø	
Ø.,	Releases and Procedures (TSBs)	INJECTOR CODE, CYLINDER 3	AB1234567893		٥	
1%	Component Replacement Guides	INJECTOR CODE, CYLINDER 4	AB1234567894		ø	
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KOMATSU

New wiring diagram configurations in the **PUMP** system for **PC-8** and **ENG** system for **PC-7**.

LIEBHERR

ECU2-HD (on UDS) engine control system, activations, system checks and the special function of fault code clearance of the aftertreatment system.













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> 0	> OHW - HEAVY EQUIPMENT > LIEBHERR > A 924 > ECU2-HD, Engine Control Module									
		MAINTENANCE \ AFTERTREATMENT SYSTEM FAULT CODE CLEARING								
Ω	System technical data	INITIAL CONDITIONS: THE ENGINE MUST BE STOPPED					~			
- 1	Diagrams	BATTERY FULLY CHARGED THIS OPERATION MUST BE DONE IF THE ENGINE ENTERS INDUCEMENT MOD	E AND IT HAS BEEN LOCKED WITH LO	W IDLE SPE	ED		×			
2	Maintenance data Vehicle/vessel data	PRESS CONTINUE AND THE PROCESS WILL BEGIN.					: 1			
26	Troubleshooting by symptoms	ENGINE SPEED	75 rpm		٢	~				
2	Releases and Procedures (TSBs)	BATTERY VOLTAGE	24 V		٢	~				
*/6	Component Replacement Guides									
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SANY

6WG1 (*on SAE J1939*) engine control system, forced and slow regeneration of the Diesel Particulate Filter and oil change reset.

VOLVO CE

HMICU (on SAE J1939) central computer, accelerator pedal check for **L Series (XY H)** models.

OHW - COMPACT EQUIPMENT

Take into account that this document is only a summary of the most relevant information of this new version. For further information, please visit Jaltest Report and coverage on Jaltest website.

New advanced actions developed in the **MCM** central computer system of **CATERPILLAR** for **D Series** compact dozers.













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1	Vehicle/vessel data	- POWERTRAIN				
?%	Troubleshooting by symptoms					
	Releases and Procedures (TSBs)					
4%	Component Replacement Guides	TRANSMISSION				
		HYDROSTATIC DRIVE PUMP				
۲		- IMPLEMENT CONTROL VALVES				
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CASE CE

FPT EDC MD1 CS069 (on SAE J1939) engine control system, AdBlue/DEF metering valve check, injector coding, maintenance services in the exhaust gas aftertreatment system and component replacement operations.

CATERPILLAR

MCM central computer for **D Series** (*on SAE* J1939), calibrations of the control lever, the power train and the implement control valves.

C-2.2 engine control system for **200 Series** (*on SAE J1939*), injector coding and Exhaust Gas Recirculation reset.

KOMATSU

New wiring diagram configurations in **PC70US-8, PC80-8, PC30-5, PC40-5** and **PC50-5** models.

KUBOTA

⊕ MCM (on SAE J1939) central computer.















LIEBHERR

ECU2-HD *(on UDS)* engine control system, activations, system checks and the special function of fault code clearance of the aftertreatment system.

NEW HOLLAND

New wiring diagram configurations in **WC Series** wheel loaders and **L Series** skid-steer loaders.

VOLVO CE

HMICU (on SAE J1939) central computer, accelerator pedal check for L Series (XY H) Compact.

Troubleshooting guides by symptom in the **EDC Euro 4/5 (Tier 2)** (on SAE J1708) engine control system.

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-ſ	Diagrams	Coolant fluid in the engine oil	^
E	Maintenance data	Engine oil in the coolant fluid	
1.	Vehicle/vessel data	Excessive consumption of engine oil	
38		Loss of engine power	
民	Releases and Procedures (TSBs)	Low engine compression	
1%	Component Replacement Guides	The engine does not start	
		The engine expels black smoke	
<		The engine expels white smoke	
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STATIONARY ENGINE

Overall, technical data in new SCANIA engine types has been added.



CATERPILLAR

⊕ C-27 / C-32 (on SAE J1939) engine control system.

C-9.3B (*on SAE J1939*) engine control system, activations, checks, parameters and maintenance service operations.













C-2.2 (*on SAE J1939*) engine control system, injector coding and Exhaust Gas Recirculation reset.

New fault code troubleshooting guides in C-2.8 and C-3.6 engine control systems.

DEUTZ

EMR4 EDC17 CV52 (*on SAE J1939*) control system of **TCD12.0** and **TCD16.0** engines, compression test, injector coding, Pressure Relief Valve reset and ZFL correction values adjustment of the injectors.

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> 51	FATIONARY ENGINE > DE	TZ > TCD 7.8 > EMR5 - EDC MD1, Electronic Diesel Control, Common Rail	
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EMR5 EDC MD1 (*on SAE J1939*) engine control system, System Display, activations, system checks and maintenance service operations.

IVECO-FPT

EDC MD1 CS069 engine control system in **F34 (F5)** and **F36 (F5)** (*on SAE J1939*), AdBlue/DEF dosing valve check, injector coding, maintenance services in the exhaust gas aftertreatment system and component replacement operations.

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> 51	ATIONAR	Y ENGINI	E > IVE	CO-FPT	> F36 ((F5) >	EDC I	MD1	CS069	9, Elect	tronic	c Diese	sel Co	ontrol,	Comm	on Rail				S	s		←	Discor	nnect
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ISUZU

6WG1 (*on SAE J1939*) engine control system, forced and slow regeneration of the Diesel Particulate Filter and oil change reset.

Control system (*on SAE J1939*) of **4HK1, 4JJ1** and **6HK1** engines, System Display during the recovery processes of the exhaust gas aftertreatment system.













LIEBHERR

ECU2-HD (on UDS) engine control system, activations, system checks and the special function of fault code clearance of the aftertreatment system.

EDC17 CV41 (*on SAE J1939*) engine control system, recovery process of the exhaust gas aftertreatment system.

VOLVO PENTA

Troubleshooting guides by symptom in the **EDC Euro 4/5 (Tier 2)** (on SAE J1708) engine control system.

MULTI-PURPOSE VEHICLE

Overall, extended diagnostics coverage for engine control systems. It is important to note a technical release to reset the maintenance interval indicator in **SCHMIDT**.











