

Name:	Normet Equipment Condition Standard	Issued:	6.11.2018	Normet Services
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Author:	or: A. Oksala 11.9.2018		A. Karhunen, M. Jaukkuri	
			12.10.2018	
Owner:	Director – Field Service	Approved:	6.11.2018 P. Rintala	

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1. PURPOSE

The purpose of this standard is to harmonize equipment condition audit results and to classify the equipment condition for five classes (Grades).

2. APPLICATION

A grade can be assigned to the device in accordance with this standard when the equipment condition audit is performed. The grade can be given for a part, a module and for a whole equipment. The tables presented in this standard describes the most important inspection points, which may give rise to interpretative differences in the condition assessment. This standard does not include all the checkpoints whose condition is easy to classify as either broken or new. The Audit Tool Database includes inspection cards, which includes the detailed inspection points and required measurements.

3. RESPONSIBILITY AND AUTHORITY

Service Engineer is responsible to inspect the equipment and give grading in accordance with this standard. Service Manager is responsible to monitor that the Service Engineers are trained to use this standard and the grading's given in the context of the equipment condition audit are in line with this standard and that there are no differences between inspectors.

4. REFERENCED DOCUMENTS

Audit Database tool

National Equipment Appraisal Condition definitions (www.nationalequipmentappraisal.com)

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5. GRADE SUMMARY

GRADE	DESCRIPTION	EXCEPTION
GRADE 5	Equipment or part is equal to new.	$1^{\rm st}$ assembly or part does not have to be new by manufacturing date. Max. 50 h usage is accepted. Found no faults what so ever.
GRADE 4	Equipment or part is rebuilt or refurbished by OEM	1 st assembly or part can be inspected by Normet authorized 3 rd party
GRADE 3	Good working conditions. Many parts can be worn, but still in acceptable working condition. Equipment cannot contain any defected parts.	
GRADE 2	Equipment or its part is qualified to be repaired or replaced.	
GRADE 1	Equipment or part is equal to unusable and cannot be repaired, scrap.	

6. GRADE CRITERIAS AND APPLICABILITY

6	.1. Definitions	
C	EM	New (max. 50 hours), inspected by Normet OEM or defined authorities. Specifications must be approved by Normet OEM or defined authorities.
٧	G (very good)	Equipment or part is rebuilt, remanufactured or refurbished. Fair wear and tear is accepted. Free of all dirt or any kind of defects. Inspected by Normet OEM or defined authorities. Specifications must be approved by Normet OEM or defined authorities.
G	C (Good condition)	Visual check and required measurements are performed. Is completely maintained by Normet OEM or defined authorities by using Normet Original
		spare parts. Any repairs, modifications or welding must be inspected and approved by Normet OEM or defined authorities. Wear on paint and rust may
		appear, but deep corrosion on any structure is unacceptable. Specifications must be approved by Normet OEM or defined authorities. All functions
		works and are safety to use. The whole equipment condition cannot be "Good condition / Grade 3" if any component is below that.
P	C (Poor condition)	Items of equipment which can only be used at some point well below their fully specified utilization, and it is not possible to realize full capability in their current condition without extensive repairs and/or replacement of major elements in the very near future. Not applicable for all items. Check from table

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inspection target specific requirement. Inspected by Normet OEM or defined authorities. Specifications must be approved by Normet OEM or defined authorities.

Scrap Condition (X)

Items of equipment which are no longer serviceable and which cannot be utilized to any practical degree regardless of the extent of the repairs or modifications to which they may be subjected. This condition applies to items of equipment which have been used for 100% of their useful life or which are 100% technologically or functionally obsolescent. Inspected by Normet OEM or defined authorities.

6.2. General Checkpoints

GENERAL	Grade 5	Grade 4	Grade 3	Grade 2	Grade 1
CHECKPOINTS					
Cleanliness	OEM. Must be clean.	VG. Minor low concrete splash with a diameter of less than 7 mm. Concrete dust residues after washing.	GC. Wear and dirt can appear. Thick and dark corrosion is not allowed.	PC. Cleaning is possible.	X. Cleaning is not possible.
Leakages	OEM. No leaks	VG.	GC. Leaks not detected	PC. Leaks can be repaired	X. No possible to repair.
Nuts, bolts, securing flanges and mounting fixture tightness	OEM.	VG.	GC.	PC. Tighten is possible.	X. Tighten is not possible, item is damaged.
Electrical connections	OEM.	VG.	GC.	PC. Connectors can be oxidized.	X. Cable insulation damaged.
Oil condition and level	OEM.	VG.	GC. If oil change sequence is used under 2/5, no need to change oils.	PC. Oil level low and oil is in good condition and oil change sequence is under 2/5. Inspect the reason for increased oil consumption. If detected metallic particles within oil change it will indicate oncoming issue.	X. Oil is foamed or color is changed. Inspect the reason contamination.
Other fluids condition and level	OEM.	VG.	GC. Antifreeze test passed and the liquid	PC. Liquid level is low. Inspect the reason for increased liquid	X. Impurities detected.

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			surface is in required	consumption. Test the freezing point	
			level.	being at least – 25 °C.	
Sounds	OEM.	VG.	GC.	PC. Clearly abnormal sounds like	not applicable
				knocking, rattling, clattering, whining	
				or hissing.	
Filters	OEM.	VG.	GC.	PC. Defined service sequence	X. Defined service sequence
				overdue or clogging indicator shows	overdue or clogging indicator
				red.	shows red.
Sealants	OEM.	VG.	GC.	Not applicable.	X. Leaks and mechanical
					damages, perishing or cured.

6.3. Chassis

CHASSIS	Grade 5	Grade 4	Grade 3	Grade 2	Grade 1	
Frame (front and rear)	OEM. Found no bends, cracks or corrosion			PC. Must not have any deformation. Welding's has to be intact.	X. Found bends or deformation / cracked or have deep corrosion.	
Pivot Joint	OEM. Found no bends, cracks or corrosion.	VG. Found no bends, cracks or corrosion.	GC.	PC. Metal structure must not have any deformation.	X. Found bends or deformation / cracked or have deep corrosion.	
Bearings and shims	OEM	VG.	GC.	Not applicable	X.	
Cabin structure	OEM. Found no bends, cracks or corrosion. FOPS/ROPS approval applicable if originally any.	VG. Found no bends, cracks or corrosion. FOPS/ROPS approval applicable if originally any.	GC. Wear on paint and rust may appear. FOPS/ROPS approval applicable if originally any.	PC. Must not have any deformation. Deep corrosion is not allowed. Cabin structure must not have any non OEM welding's or holes drilled	X. Found bends or deformation / cracked or have deep corrosion.	
Gates, doors and locks	OEM.	VG.	GC.	PC. Welding structure must be intact. With Locks grade 2 is not applicable.	X. Found bends or deformation / cracked or have deep corrosion.	

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Windows	OEM. Found no cracks or	VG. Found no cracks or	GC.	Not applicable.	X. Found bends or deformation /
	scratches.	scratches.			cracked or have deep corrosion.

6.4. Engine and auxiliary equipment's

ENGINE	Grade 5	Grade 4	Grade 3	Grade 2	Grade 1
Engine	OEM.	VG. Operating hours shall not exceed 4000 h. No excessive oil or coolant leaks, abnormal sound or excessive smoke or blow-by.	GC.	PC. Engine has to run, no abnormal sounds or heavy smoking. Idle RPM variation may appear. High RPM is too low. Big differences compared pulling test.	X. Engine does not run or have abnormal sounds or heavy smoking.
Mounting pieces	OEM.	VG.	GC.	Not applicable.	X.
Alternator	OEM	VG.	GC.	PC. The core has to be intact. Wearing on charger coals are accepted.	X. The core is broken.
Starter motor	OEM.	VG.	GC.	PC. Core has to be intact, wearing on coals or solenoid problem is accepted.	X. The core is broken.
Turbo	OEM.	VG.	GC.	PC. Charger core needs to be flawless. Mechanical wearing is not accepted.	X. The core is broken.
Charging hoses (hot & cold)	OEM.	VG.	GC.	Not applicable.	X.
Auxiliary belts	OEM.	VG.	GC.	Not applicable.	X.
Fuel system (pump, injectors and valves)	OEM.	VG.	GC.	Not applicable.	X.
Fuel hoses	OEM.	VG.	GC.	PC. Hose clamp loosened.	X. Leaks
Water pump	OEM.	VG.	GC.	PC. Leak.	X. Axle broken and doesn't pump.

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ENGINE	Grade 5	Grade 4	Grade 3	Grade 2	Grade 1	
Radiator	OEM.	VG.	GC.	PC. Dirty.	X. Radiator hole.	
Expansion tank	OEM.	VG.	GC.	PC. Must not have any deformation or leaks.	X. Found deformation or leaks or cap is missing.	
Air filter housing	OEM.	VG.	GC.	Not applicable.	X.	
Air filters (inner & outer)	OEM.	VG.	GC.	PC. Element can be cleaned with air if max. 50 hours in use.	X.	
Exhaust piping	OEM.	VG.	GC.	PC. Minor hole is allowed but wall cannot be rusty.	X.	
Exhaust heat covers	OEM.	VG.	GC.	PC. Spring clamps loosened.	X. The seam dangles. The clips are missing or are damaged.	
Exhaust catalytic purifier	OEM.	VG.	GC.	PC. Can be cleaned according Normet instructions. Must not have any deformation and free of all damages.	X. Failed emission test.	
ENGINE PERFORMAN	ENGINE PERFORMANCE VALUES					
Idle rpm.	According Normet defa	ault values and settings		1	1	
High rpm.	According Normet default values and settings.					
Stall rpm.	According Normet default values and settings.					
Pulling test	According Normet defa	ault values and settings				
Emission test	According Normet defa	ault values and settings				

6.5. Transmission & driveline

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TRANSMISSION AND DRIVELINE	Grade 5	Grade 4	Grade 3	Grade 2	Grade 1
Transmission	OEM	VG	GC.	PC. The casing must be 100% intact and must be free of all damages.	X. The casing is broken
Axles	OEM	VG	GC.	PC. The casing must be 100% intact and must be free of all damages.	X. The casing is broken
Propeller shaft	OEM	VG. OEM. With max 50 h. lattice type must be having approval of Normet OEM or defined authorities.	GC.	PC. Looseness can be detected by hand but doesn't make any rattling voice.	X. Major looseness or deformation.
Support bearings	OEM	OEM. With max 50 h. bearing type must be having approval of Normet OEM or defined authorities.	GC.	PC. Looseness can be detected by hand but doesn't make any rattling voice.	X.
All transmissions, planetaries, clutches, drive mechanisms	OEM	VG. Shall function properly with no binding, grabbing, unintended slippage, overheating or excessive sound	GC.	PC. If detected metallic particles within oil change it will indicate oncoming issue.	X.
Retarders where installed	OEM	VG. Shall operate within manufacturer's specifications	GC.	Not applicable.	X. No traction.
TRANSMISSION AND D	RIVELINE PERFO	RMANCE VALUES			
Brake test	According Normet default values and settings.			Not applicable.	X.
Pulling test	According Normet default values and settings.			Not applicable.	X.
propeller shaft alignment	According Normet default values and settings.			Not applicable.	X.
Brake disc thickness	According Norn	net default values and settings.		Not applicable.	X.

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6.6. Tires and rims

TIRES AND RIMS	Grade 5	Grade 4	Grade 3	Grade 2	Grade 1
Tires	OEM	VG. Fair wear and tear is accepted. Tyre side walls shall be free of all cuts deeper than 2 mm, bumps or any type of damages.	GC. No side cuts > 2 mm or visible bumps or any type of damages.	Not applicable.	X. Found side cuts > 2 mm or visible bumps / other damages.
Rims	OEM	VG. Rims shall not have any cracks or deformations. Rims can be sand blasted and repainted.	GC. Rims shall not have any cracks or deformations.	PC. Rims shall not have any cracks or deformations. Rims shall be sand blasted and repainted.	X. Found cracks or deformations.
TIRE MEASUREMENT VALUES					
Tread depth in mm.	OEM	VG. 80 % from Normet default values.	GC. 50% from Normet default values.	Not applicable.	X. Under 30 % default value

6.7. Electrics

ELECTRICS	Grade 5	Grade 4	Grade 3	Grade 2	Grade 1
Wiring harness	OEM	VG.	GC.	PG. Connectors and pins are allowed to have damage. Wiring must be 100% intact and free of all damages.	X. Wiring damaged
Terminal boxes	OEM	VG.	GC.	PG. Screws can be missing. Terminal box must have no any deformation.	X. Terminal box have deformation.
Sensors	OEM	VG.	GC.	Not applicable.	X.
Lights	OEM	VG.	GC.	PG. Bulb is allowed to be broken. Light casing must be 100% intact.	X. Light casing broken.

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ELECTRICS	Grade 5	Grade 4	Grade 3	Grade 2	Grade 1
Remote control unit	OEM	VG.	GC.	PG. Casing must be free of all damages. Symbols are allowed to be missing. Electrical components are allowed to have malfunctions.	X. Casing is damaged.
Batteries	OEM	VG.	GC.	Not applicable.	X. Machine does not start after battery charging.
Switches and buttons, horns and alarms	OEM	VG.	GC.	Not applicable.	X.
Covers and markings	OEM	VG.	GC.	Not applicable.	X.
HV cable	OEM	VG.	GC. Wear may appear on cable condition, fastening pieces and cover spirals. Functionality 100%.	PG. Minor cuts on rubber insulation are allowed. Must not have any deformation. Does not pass insulation resistance test.	X. Cable damaged or does not pass insulation resistance test.
HV cable reel and slip ring unit	OEM	VG.	GC.	PG. Wearing on slip rings and brushes are allowed. Cable reel can have deformation, welding's must be intact.	X. Cable reel injured or welding's are not intact.
Electric motors	OEM	VG.	GC.	Not applicable.	X.
Displays and I-O modules	OEM	VG.	GC.	Not applicable.	X.
Retarders	OEM	VG.	GC.	Not applicable.	X.
ELECTRICS MEASURED	VALUES				
Insulation resistance measurement	Inspected by Nor	met OEM or defined authorities. Fo	ound no faults.		

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6.8. Boom

воом	Grade 5	Grade 4	Grade 3	Grade 2	Grade 1
Boom structure	OEM	VG.	GC.	PG. Boom pipes dirty.	X. Welding seam ruptured. Hoses are frayed.
Joints, Pins, Bearings and Bushings	OEM	VG.	GC.	PG. Bearings, pins or slide pads can be wear.	X.
Rollers	OEM	VG.	GC.	Not applicable.	X. Wearing, looseness.
BOOM PERFORMANCE	VALUES				
Brake hold and	According Norme	t default values and settings			X.
release					
Movements up,	According Norme	X.			
down, left, right,					
telescope in & out.					

6.9. Hydraulics

HYDRAULICS	Grade 5	Grade 4	Grade 3	Grade 2	Grade 1
Hydraulic pumps	OEM	VG.	GC. Hydraulic pumps (power pack & diesel) visually checked and adjusted to meet correct values.	Not applicable.	X. Doesn't meet correct values
Hydraulic motors	OEM	VG.	GC.	Not applicable.	X. Doesn't run or has no power.
Hydraulic hoses	OEM	VG.	GC. Test pressurized and visually checked.	Not applicable.	X. Test pressurized and visually checked. If any damage or visual wear hoses are changed to new.

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Hydraulic fittings	OEM	VG.	GC. Test pressurized and visually checked.	Not applicable.	X. Test pressurized and visually checked. If any damage or visual wear fittings are changed to new.
All hose covers	OEM	VG.	GC.	Not applicable.	X. Functionality < 100% Protective spiral loosened.
All fastening pieces	OEM	VG.	GC.	Not applicable.	X. Functionality < 100%
Valve blocks	OEM	VG.	GC. Clean and checked	Not applicable.	X. Oxidized, worn or doesn't work.
Hydraulic cylinders	OEM	VG.	GC.	PG. Piston rod corrosion is allowed. Seal can be broken. Casing must be 100% intact.	X. Casing broken.
HYDRAULIC SYSTEM PERFORMANCE VALUES					
Hydraulic pressures	ic pressures According Normet default values and settings				
Cylinder movements	According Norme	X.			

6.10. Concrete pump / line

CONCRETE PUMP / LINE	Grade 5	Grade 4	Grade 3	Grade 2	Grade 1
Wearing plate	OEM	VG.	GC.	Not applicable.	X. Doesn't meet the groove depth measurement target values (3 mm).
S-valve / Rock valve	OEM	VG.	GC.	PG. Worn rock valve cutting ring could be rotated 90 degrees.	X. Rock valve cutting ring rotated already twice. Cutting ring wear limit edge 4 mm.
Bearings	OEM	VG.	GC.	Not applicable.	X. Looseness.
Concrete line	OEM	VG.	GC.	Not applicable.	X. Concrete residual found or frayed.
Hydraulic system	OEM	VG.	GC. No wear or leaks allowed	PG. Hoses and fittings not applicable.	X. Hoses and fittings

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				Hydraulic pressure too low. Pressure leaks to the tank.	
Accelerator pump	OEM	VG.	GC. No air leek allowed in accelerator dozing system	PG. Mechanically 100% intact, working condition must be achieved by cleaning.	X.
Clamps	OEM	VG.	GC.	PG. Mechanically 100% intact, working condition must be achieved by cleaning.	X. Worn, damaged
Nozzle	OEM	VG.	GC.	PG. Mechanically 100% intact, working condition must be achieved by cleaning.	X. Damaged
Mass tube	OEM	VG.	GC.	PG. Mechanically 100% intact, working condition must be achieved by cleaning.	X. Residual concrete, damaged, worn out or swollen.
Nozzle rotation elements	OEM	VG.	GC.	PG. Mechanically 100% intact, working condition must be achieved by cleaning.	X. Not working properly, looseness in the joints.
CONCRETE PUMP PER					
Accumulator gas pressure test					
Groove measurement	According Norme				

6.11. Compressor

COMPRESSOR	Grade 5	Grade 4	Grade 3	Grade 2	Grade 1
Air filters	OEM.	VG.	GC.	PG. Cooling air filter and return filter can be dirty.	X.
Pre mat (matto)	OEM.	VG.	GC. Free of dirt.	PG. Dirty	X. Damaged or residual concrete

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Air valves	OEM.	VG.	GC. Free of dirt.	PG. Return valves are allowed to be dirty.	X.
Casing	OEM.	VG.	GC. Free of dirt.	PG. Dirty	X. Damaged
Cooler	OEM.	VG.	GC. Cooler and the compressed air after cooler should be free of dirty.	PG. Cooler and the compressed air after cooler are allowed to be dirty.	X. Temperature rises
COMPRESSOR PERFOR	MANCE VALUES				
Air pressure tests	According Norme				
Valve max. pressure	According Norme				
Max. temperature	According Norme	t default values and settings			

6.12. Optional equipment's

OPTIONAL EQUIPMENTS	Grade 5	Grade 4	Grade 3	Grade 2	Grade 1
High pressure washers and wall washers	OEM	VG.	GC.	PG. Leakage from seals is allowed. Gauge can be broken. Casing must be 100% intact and free of damages	X. Casing damaged
Generator	OEM	VG.	GC.	Not applicable.	X. Leaks, dirt or faults found
Welding generator	OEM	VG.	GC.	Not applicable.	X. Leaks, dirt or faults found
Form oil system	OEM	VG.	GC.	PG. Leakage from seals is allowed.	X. Oil pump doesn't run.
Heating and AC system	OEM	VG.	GC.	PG. Doesn't blow cold air. Failure in pressure test.	X. Heating cover resistances broken. Leaks, compressor stacked or AC condenser broken.

6.13. Surface treatment

SURFACE	Grade 5	Grade 4	Grade 3	Grade 2	Grade 1
TREATMENT					

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Paint	OEM. No dents,	VG. No dents, scratches, rust or	GC. Wear on paint	Not applicable.	X. Dents, scratches and deep
	scratches, rust	any faults	and rust may appear.		corrosion found.
	or any faults				

6.14. Man lifting baskets and platforms

BASKETS	Grade 5	Grade 4	Grade 3	Grade 2	Grade 1
Basket or platform structure	OEM. FOPS / ROPS approval must be valid.	VG. FOPS / ROPS approval must be valid.	GC. No bends or cracks on hand rails. Working area should be clean. FOPS / ROPS approval must be valid.	PG. Bends or cracks on hand rails are accepted. Must be repaired according Normet instructions. FOPS / ROPS approval must be valid.	X. FOPS / ROPS approval invalid.

6.15. Scaling hammer, claw and tool

SCALING HAMMER, CLAW AND TOOL	Grade 5	Grade 4	Grade 3	Grade 2	Grade 1
Hammer	OEM.	VG.	GC. Hydraulic oil temperature should be according OEM. Tool shank and bushing and hydraulic hoses wear are not allowed. Hoses should not rub	PG. Hammer casing must be 100% intact. Wearing and malfunction is allowed.	X. Hammer casing damaged. Hoses are damaged.

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			against anything in any boom position.		
Scaling tool	OEM.	VG.	GC.	Not applicable.	X. Damaged or broken
Scaling claw unit	OEM.	VG.	GC.	Not applicable.	X. Damaged or broken
SCALING HAMMER, CLAW AND TOOL PERFORMANCE VALUES					
Hydraulic pressures	Sures According Normet default values and settings			Not applicable.	X.