

	ENGINE CONDITION REPORT OF UNIT MERCEDES BENZ				RESULT OF UNIT GOOD
	Company / Jobsite address	: PT PPA SITE AMI	Chasis Number	: MEC2437BCPP136253	
	Date	: 10 MEI 2025	Engine Number	: 400953D0141942	
	Unit NO	: DA25176	Mileage (Km)	: 9831	
	Truck type	: AXOR 2528 CH	Hours Meter	: 681	

CHECK ITEM	CONDITION	UNIT	REFERENCE VALUE	ACTUAL	CORRECTION ACTION	RESULT	REMARKS
ENGINE							
Engine Speed	Low idle	Rpm	500 - 600	600			Engine Performance GOOD
	Low idle (PTO ON)		750	608			
	High idle		2600	2727			
	High idle (PTO ON)		1455	1602			
Engine Oil Pressure	Low idle	Bar	4	4			
	High idle		4	4			
Engine Temperature Working	Idle Speed	°C	70 - 95	72			
	2000 Rpm	°C	70 - 95	72			
Engine Oil Temperature	Idle Speed	°C	±2 Above Coolant Temp	70			
Test of smooth running							
- Cylinder No. 1	Low Idle (See actual value by Xentry Diagnostic)		<2.5%	0.03			
- Cylinder No. 2	Low Idle (See actual value by Xentry Diagnostic)		<2.5%	0.06			
- Cylinder No. 3	Low Idle (See actual value by Xentry Diagnostic)		<2.5%	0.09			
- Cylinder No. 4	Low Idle (See actual value by Xentry Diagnostic)		<2.5%	0.03			
- Cylinder No. 5	Low Idle (See actual value by Xentry Diagnostic)		<2.5%	0.09			
- Cylinder No. 6	Low Idle (See actual value by Xentry Diagnostic)		<2.5%	0.14			
Dynamic Cylinder Comparison							
- Cylinder No. 1	Compression test (See actual value by Xentry Diagnostic)		>75%	85%			
- Cylinder No. 2	Compression test (See actual value by Xentry Diagnostic)		>75%	87%			
- Cylinder No. 3	Compression test (See actual value by Xentry Diagnostic)		>75%	83%			
- Cylinder No. 4	Compression test (See actual value by Xentry Diagnostic)		>75%	84%			
- Cylinder No. 5	Compression test (See actual value by Xentry Diagnostic)		>75%	96%			
- Cylinder No. 6	Compression test (See actual value by Xentry Diagnostic)		>75%	100%			
Boost pressure test	use Xentry Diagnostic& High Rpm and hold +-5 seconds	Bar	1.3 - 1.5	1.322			

Check V - Belt, Idler Roller & Tensioner	Engine Stop	Check for Wear, noise and jammed		GOOD																																																									
Measure Turbocharge Play		mm																																																											
- Turbine Axial Play	Engine Stop		Max. 0,1																																																										
- Turbine Radial Play	Engine Stop		Max. 0,9																																																										
- Turbine condition	Engine Stop	Check for any chips or surface damage																																																											
Check / Adjust Valve Clearance	Reading from crankshaft sensor at 7th hole TDC post			OK																																																									
<table border="1"> <tr> <th rowspan="2">Rotation</th> <th rowspan="2">Positions</th> <th colspan="2">1st cylinder</th> <th colspan="2">2nd cylinder</th> <th colspan="2">3rd cylinder</th> <th colspan="2">4th cylinder</th> <th colspan="2">5th cylinder</th> <th colspan="2">6th cylinder</th> </tr> <tr> <th>In</th> <th>Ex</th> <th>In</th> <th>Ex</th> <th>In</th> <th>Ex</th> <th>In</th> <th>Ex</th> <th>In</th> <th>Ex</th> <th>In</th> <th>Ex</th> </tr> <tr> <td>1st rotation</td> <td>1st cylinder in TDC and 6th cylinder in overlap position</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> </tr> <tr> <td>2nd rotation</td> <td>6th cylinder in TDC and 1st cylinder in overlap position</td> <td></td> <td></td> <td></td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td>✓</td> <td>✓</td> <td></td> <td>✓</td> <td>✓</td> </tr> </table>	Rotation	Positions	1st cylinder		2nd cylinder			3rd cylinder		4th cylinder		5th cylinder		6th cylinder		In	Ex	In	Ex	In	Ex	In	Ex	In	Ex	In	Ex	1st rotation	1st cylinder in TDC and 6th cylinder in overlap position	✓	✓	✓			✓	✓			✓			2nd rotation	6th cylinder in TDC and 1st cylinder in overlap position				✓	✓			✓	✓		✓	✓	cyl 1 (mm)	Intake = 0,4 ±0,05	0.50	0.4		
			Rotation	Positions	1st cylinder			2nd cylinder		3rd cylinder		4th cylinder		5th cylinder		6th cylinder																																													
	In	Ex			In	Ex		In	Ex	In	Ex	In	Ex	In	Ex																																														
	1st rotation	1st cylinder in TDC and 6th cylinder in overlap position	✓	✓	✓				✓	✓			✓																																																
	2nd rotation	6th cylinder in TDC and 1st cylinder in overlap position				✓	✓			✓	✓		✓	✓																																															
		Exhaust = 0,6 ±0,05	0.70	0.6																																																									
	cyl 2 (mm)	Intake = 0,4 ±0,05	0.50	0.4																																																									
		Exhaust = 0,6 ±0,05	0.75	0.6																																																									
	cyl 3 (mm)	Intake = 0,4 ±0,05	0.50	0.4																																																									
		Exhaust = 0,6 ±0,05	0.80	0.6																																																									
	cyl 4 (mm)	Intake = 0,4 ±0,05	0.55	0.4																																																									
		Exhaust = 0,6 ±0,05	0.75	0.6																																																									
cyl 5 (mm)	Intake = 0,4 ±0,05	0.50	0.4																																																										
	Exhaust = 0,6 ±0,05	0.70	0.6																																																										
cyl 6 (mm)	Intake = 0,4 ±0,05	0.50	0.4																																																										
	Exhaust = 0,6 ±0,05	0.70	0.6																																																										
NOTE																																																													
Torque Nut Intake Valve	25 Nm		N/A	25Nm																																																									
Torque Nut Exhaust Valve	25 Nm		N/A	25Nm																																																									
Torque Bolt Cylinder Head Cover	25 Nm +/- 5Nm		N/A	25Nm																																																									
Firing Order	1 - 5 - 3 - 6 - 2 - 4		N/A	1 - 5 - 3 - 6 - 2 - 4																																																									
Dynamic Cylinder Comparison																																																													
> OIL SUMP BENDING > BRACKET RADIATOR BENDING > EXHAUST LINE BERGESEKAN DENGAN SPRING																																																													

Inspection by,

Checked by,

Approve by,