

## Diesel engine test report



Engine serial number	3ZW00284
Workorder number	SR12817
Project number	105065

Date test start	: Monday, December 23, 2019		
Date test end	: Monday, December 23, 2019		
<b>Customer data</b>			
Customer	: D.P.H.	Zipcode	: 4782 PZ
Address	: Oostelijke Randweg 18	Telephone number	: 0168 388 488
Place	: Moerdijk	Contact person	: E. v/d Giesen
<b>Engine data</b>			
Type	: 3512 DITA	O.T. number	: 0K3533
Arrangement number	: 1351752	SMU	: 1
Application	: Locomotive	TURBO NR.	: 1884629
Advertised Speed / Power	: 1455Kw @ 1800Rpm	INJECTOR NR.	: 1504456
<b>Attachments</b>			
Governor make	: CAT	Type:Adem 2	Serial number : N/a
Ign. system	: N/a	Serial number	: N/a
Generator	: N/a	Serial number	: N/a
ECM SOFTWARE.	: 2086646-00	ECM NR.	: 2919L184CD
<b>Adjustments</b>			
Power kW	: 1455	RPM	: 1800
910 low idle speed RPM	: 600	Rack setting mm	: 22.7 test spec 23,7 ecm
910 high idle speed RPM	: 1818	Fuel timing mm	: 64.34
Full load	: 100%	Generator power ekW	: N/a
<b>Consumption fuel/gas/oil</b>			
		Gas by	: bar
Fuel Test end	: 635	liters	: m <sup>3</sup>
Fuel Test start	: 0	liters	: m <sup>3</sup>
Consumption	: 635	liters	: m <sup>3</sup>
Lub. oil	: 300	liters	Type oil: CAT : 15W40 SAE



**General data**

	1	2	3	4	5	6	7	8	9	10
Time (start / stop) min		30	30	30	60					
Remarks during test procedure										
Engine rpm	RPM	Start	1134	1430	1580	1800	Stop			
Load	%		25	50	75	100				
Shaft	kW		363	727	989	1455				
Torque	Nm		3060	4912	5995	7690				

**JW Cooling system**

922 JW inlet temp (from cooling system) °C		25	38	36	34					
901 JW outlet temp (before regulator) °C		82	81	81	81					
902 JW pump outlet °C		80	78	78	77					
903 A/C inlet water temp °C		52	51	48	46					
903A A/C outlet water temp °C		53	54	56	54					

**Lubrication oil system**

913 Lube oil eng. Inlet temp °C		88	90	91	94					
Delta T cooler		7	9	11	12					
914 Lube oil press. kPa		386	392	399	389					
Crankcase pressure kPa		0.2	0.2	0.4	0.4					

**Inlet system**

906 Inlet Manifold temp. °C <small>Before aftercooler</small>		52	99	132	182					
906 Inlet Manifold temp. R °C <small>After aftercooler</small>		59	60	61	62					
930 Air@Air cleaner temp. °C		18	22	23	28					
Air inlet pres. L kPa		21	76	125	201					

Ambient temperature: 8 °C

**Fuel system**

	1	2	3	4	5	6	7	8	9	10
917 Fuel pressure kPa		377	412	424	423					
201 Fuel inlet line °C		10	10	10	11					
202 Fuel outlet return °C		34	33	32	33					
Fuel consumption L/H		96	181	242	366					

Fuel density 843.7 g/dm<sup>3</sup> @ 13 °C

**Exhaust Data**

	1	2	3	4	5	6	7	8	9	10
Stack Temperature °C		431	486	465	480					
Manifold Temperature L °C		503	593	606	660					
Manifold Temperature R °C		499	584	584	656					



**Remarks / Exceptions**

Remarks: The oil pressure was 215 kPa and 91 °C at low idle

- Oil filter checked and approved
- Oil sample taken
- No visual leakages
- Engine mechanical approved

Work done by : David Ellis, Ad Flipsen

Signature :

Test done by : Marcel van den Adel

Date : 23-12-19

**Pon Power BV**  
Ketelweg 20 - Postbus 61  
3350 AB Papendrecht

Approved by customer :

Signature :

Date :

Approved by class.soc. :

DHR:

Signature :

STAMPED:

Date :