

# PALMER JOHNSON POWER SYSTEMS TEST REPORT

6 WG 310

Serial-No.: 603843      TECHNICAL DATA      Shop Order No.: 1158241  
 BOM#: 4646086019      Test Date: 8/20/2009      Acc.:  
 Tester: Palmer Johnson      Customer: AIS Equipment

OIL TYPE: According to TE-ML 03      T Start [°C]      Min      0.0      51.7      75.0      Max

COMPONENT TEST:  
 Emergency steering pump OK?       Output axle switchable?       Power Take-off OK?   
 Converter relief valve opens at:      Min      8,5      9,5      10,5      Max

BASIC FUNCTIONS	QP [l/min]		QK [l/min]		QP-QK [l/min]		PS [bar]		
	Min	Act.	Min	Act.	Max	Act.	Min	Act.	Max
	Gear: N								
NE = 998 [rpm]	55.0	66.4	38.0	53.1	17.0	13.3	0.20	0.55	1.40
NE = 1502 [rpm]	88.0	102.9	71.0	89.0	17.0	13.9	0.20	1.54	2.20

INDUCTIVE TRANSMITTER	Gear	NE [rpm]	Engine [rpm]			Turbine [rpm]			Gear Train [rpm]			Output [rpm]			Speedo el. OK? <input type="checkbox"/>
			Min	Act.	Max	Min	Act.	Max	Min	Act.	Max	Min	Act.	Max	
			5F	805	780	814	820	755	762	795	755	762	795	780	
5F	2004	1980	2005	2020	1940	1976	1980	1940	1976	1980	2000	2036	2040		

FORCE FLOW TEST      NE = 800 [rpm]      Gear: 1F - 5F - 6F - 1R - 2R  
 KV OK?       KR OK?       K1 OK?       K2 OK?       K3 OK?       K4 OK?

AEB - TEST		NE = 800 [rpm]					
Gear	KV	KR	K1	K2	K3	K4	Message EST: AEB OK
Fast filling time [s]	-0.02	-0.02	0.07	0.02	0.02	-0.06	
Compensation pressure [bar]	-0.20	-0.20	0.30	0.10	0.10	-0.20	

FUNCTION TEST		NE = 1508 [rpm]															
PSYS>	15.5 [bar]	PK1	Min	15.5	Max	18.5	[bar]	PS >	0.20	[bar]	QP - QK <					17.0	[l/min]
Gear	ME [Nm]	QP [l/min]	QK [l/min]	QP-QK [l/min]	PWE [bar]	PWA [bar]	PSYS [bar]	PS [bar]	PKV [bar]	PKR [bar]	PK1 [bar]	PK2 [bar]	PK3 [bar]	PK4 [bar]	TW [bar]	TW [°C]	
N	85	102.8	88.9	14.0	-0.1	4.9	16.9	1.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	54	
1F	80	102.4	88.3	14.1	-0.1	4.9	17.0	1.5	16.8	0.1	17.1	0.0	0.0	0.0	0.0	54	
2F	98	102.1	87.9	14.2	0.0	4.8	17.0	1.4	0.3	1.3	16.9	0.0	0.0	0.0	16.9	54	
3F	85	102.1	87.8	14.4	-0.1	4.8	16.8	1.5	16.6	0.6	0.2	16.9	0.0	0.0	0.0	55	
4F	102	101.8	87.8	14.0	-0.1	4.7	17.0	1.4	0.2	0.1	0.1	17.0	0.0	0.0	16.9	55	
5F	125	101.5	87.4	14.1	-0.1	4.7	17.0	1.4	16.7	0.1	0.2	0.2	16.7	0.2	56		
6F	197	101.1	88.1	13.0	-0.1	4.7	16.9	1.4	0.2	0.0	0.1	0.2	16.7	17.0	55		
1R	82	101.2	86.7	14.5	-0.1	4.7	16.7	1.4	0.0	16.4	16.7	0.3	0.0	0.1	56		
2R	88	100.4	86.8	13.5	-0.1	4.5	17.1	1.4	0.0	16.9	0.1	17.1	0.0	0.1	59		

CONVERTER CLUTCH		NE = 1500 [rpm]						Gear: 5F					
PWK "On" [l/min]			PWK "Off" [l/min]			WK Leakage [l/min]			Shift time [s]				
Min	Act.	Max	Min	Act.	Max	Min	Act.	Max	Min	Act.	Max		
12.0	12.8	14.0	0.0	0.0	0.5	0.0	1.4	3.0	1.6	1.7	2.0		

RETARDER							CRAWLER						
NE = 1000 [rpm]							NE=1000 rpm						
Gear: N							Gear: 1 F						
4 bar	1000	46.9	10.9	36.0	306	600	NA (rpm)	Off	Signal "OFF" OK?	<input type="checkbox"/>			
0 bar	600	63.4	49.8	13.7	72		On	Signal "ON" OK?	<input type="checkbox"/>				
Leakage Retarder: Nom.<5 l/min Act. [l/min]: 22.3							Tightness Crawler ON/OFF OK? <input type="checkbox"/>						

IDLE RUNNING TEST		NE = 1508 [rpm]								
Gear		N	1F	2F	3F	4F	5F	6F	1R	2R
ME Max [Nm]		160	180	180	190	220	220	220	190	190
ME Act. [NM]		85	80	98	85	102	125	197	82	88

RESULT:  
 Transmission leak-proof?       Transm. OK?

