IKM Testing AS

Unit No. PP-119B

HPD SPS 1400 CC-2
TRIPLEX PUMPE ENHET
Må brukes sammen med PP-119A

Offshore Zone 2
Iht. DNV 2.7.1 og Norsok Z-015

ATEX II 3G IIA T3

Dimensjoner	:	L: 3130 mm	B: 2437 mm	H: 3036 mm
Vekt	:	MGW 10050 kg		
Løft/Transport	:	10' Offshore ISO container med gaffeltruck lommer og løfteslings. Kan stables i høyde med bruk av ISO-låser		
Ref. Sert	:	PP-119B / HPP-21/2		

P max	:	916 Bar
Q max	:	2065 l/min
Fødevannstrykk	:	Minimum 3,5 bar ved full flow på triplex pumpe.
Tilkobling inn	:	2 x 6" 150# Ansi.
Tilkobling ut	:	2 stk 2" Fig 1502 Female. Se tabell for bruk av enkel eller dobbelt utløp.

Pumpe	:	Gardner Denver GD-2250 Triplex pump. Standard Plunger 4,5", andre størrelser på forespørsel.
Fluid End Prod.no	:	1094THD2039 / Serie nr. GO35826
	:	Dieseltank 1200L
Annen informasjon		Pumpen må brukes sammen med PP-119A Todelt enhet, hvor motoren og pumpen må være koblet via en drivaksel, hydrauliske slanger og diesel slanger.
Bygget	:	2010

Table 2: GD-2250T Discharge Flange Configuration Options

plunger size (in)	100 rpm				150 rpm				200 rpm				250 rpm				330 rpm			
	2" Flange		3" Flange		2" Flange		3" Flange		2" Flange		3" Flange		2" Flange		3" Flange		2" Flange		3" Flange	
	SD	DD	SD	DD	SD	DD	SD	DD	SD	DD	SD	DD	SD	DD	SD	DD	SD	DD	SD	DD
3.75	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓
4.5	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓
5	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓			✓	✓
5.5	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓			✓	✓				✓
6		✓	✓	✓		✓	✓	✓			✓	✓				✓				✓
6.5		✓	✓	✓		✓	✓	✓				✓				✓				✓
6.75		✓	✓	✓		✓	✓	✓				✓				✓				✓
7.5			✓	✓			✓	✓			✓	✓				✓				✓

Pumperater for 4,5” plunger, oppgitt i Barrel Petroleum /min = 159 l /min.

Caterpillar C-32 Rated at 1400 BHP@2100RPM

Engine RPM	BHP	HHP	7 rate	7 press	6 rate	6 press	5 rate	5 press	4 rate	4 press	3 rate	3 press	2 rate	2 press	1 rate	1 press
2100	1432	900	13,0	2827	10,2	3590	8,2	4466	7,3	5003	5,9	6219	4,8	7604	3,5	10600
2000	1413	900	12,4	2968	9,7	3769	7,8	4689	7,0	5253	5,6	6530	4,6	7984	3,3	11130
1900	1395	900	11,8	3124	9,3	3968	7,4	4936	6,6	5530	5,3	6873	4,4	8404	3,1	11716
1800	1377	900	11,1	3298	8,8	4188	7,0	5210	6,3	5837	5,1	7255	4,1	8871	3,0	12367
1700	1294	900	10,5	3492	8,3	4434	6,7	5517	5,9	6180	4,8	7682	3,9	9393	2,8	13094
1600	1212	900	9,9	3710	7,8	4712	6,3	5862	5,6	6567	4,5	8162	3,7	9980	2,6	13912
1500	1030	773	9,3	3397	7,3	4314	5,9	5367	5,2	6012	4,2	7473	3,4	9137	2,5	12738
1400	860	662	8,7	3120	6,8	3962	5,5	4929	4,9	5522	3,9	6863	3,2	8392	2,3	11699
1300	716	573	8,0	2906	6,3	3691	5,1	4592	4,5	5144	3,7	6393	3,0	7817	2,1	10898
1200	624	543	7,4	2984	5,8	3789	4,7	4714	4,2	5281	3,4	6564	2,8	8026	2,0	11189

Allison S9806

gear	ratio
1	3,75
2	2,69
3	2,20
4	1,77
5	1,58
6	1,27
7	1

Plunger	BBL/Rev
4	0,0311
4,50	**0,0393**
5	0,0486

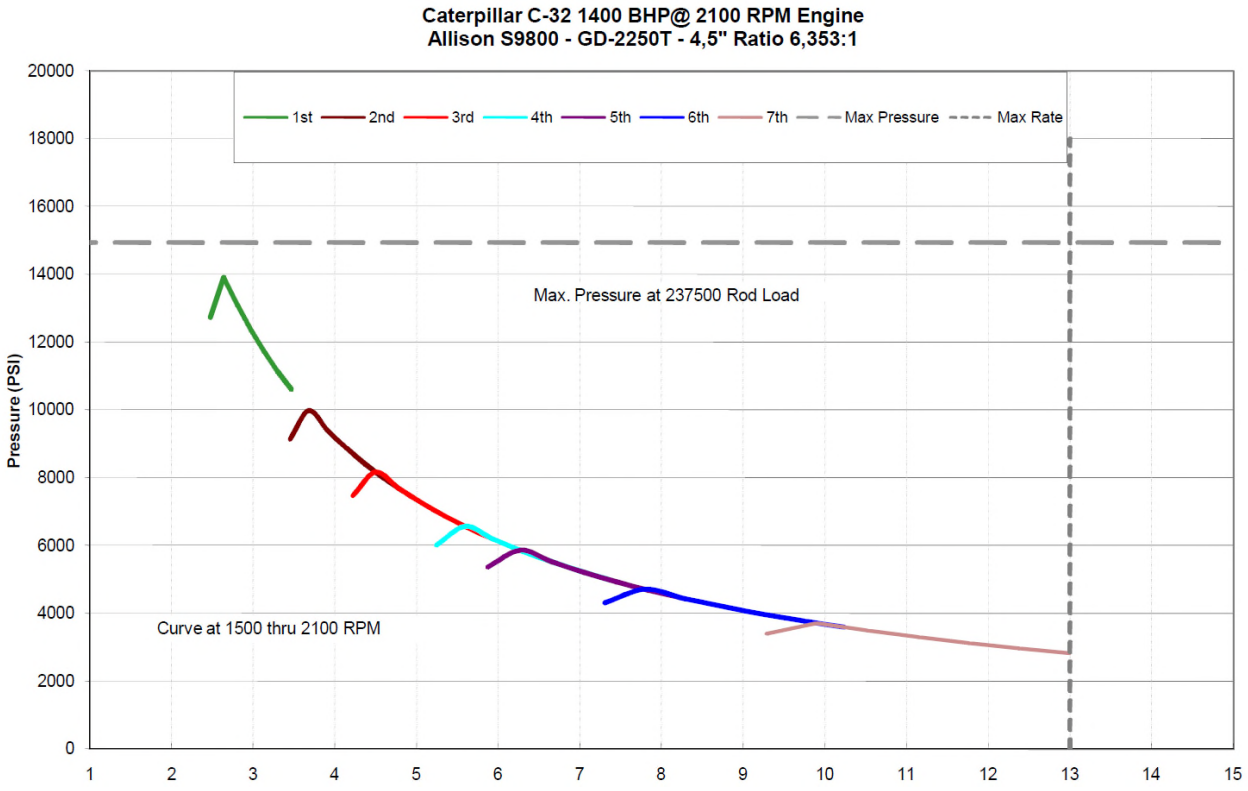
GD-2250T Pump Assembly with 6,353:1 gear ratio

Plunger	Pump	Fluid	hhp=r*p/40.8
4,5	6,353	0,0393	at 90% Mechanical Efficiency
	max press=	16836	

Area= 15,904 sq. in. 14933 @237500 rod load

Max Pressure	3,0	12367	0	14940
			15	14940
Max. Rate	10,2	3590	13,0	0
			13,0	18000

Flowrate oppgitt i Barrel Petroleum /min = 159 l /min



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Caterpillar C-32 Rated at 1200 BHP@2100 RPM.

			7th		6th		5th		4th		3rd		2nd		1st	
Engine RPM	BHP	HHP	Rate (LPM)	Pressure (BAR)	Rate (LPM)	Pressure (BAR)	Rate (LPM)	Pressure (BAR)	Rate (LPM)	Pressure (BAR)	Rate (LPM)	Pressure (BAR)	Rate (LPM)	Pressure (BAR)	Rate (LPM)	Pressure (BAR)
2100	1100	913	2065	198	1626	251	1307	313	1166	350	938	435	768	532	551	742
2000	1100	913	1966	208	1548	264	1245	328	1111	368	894	457	731	559	524	779
1900	1100	913	1868	219	1471	278	1182	345	1055	387	849	481	694	588	498	820
1800	1100	913	1770	231	1393	293	1120	365	1000	409	804	508	658	621	472	865
1700	1100	913	1671	244	1316	310	1058	386	944	433	760	538	621	657	446	916
1600	992	823	1573	234	1239	297	996	370	889	414	715	515	585	630	419	878
1500	852	707	1475	215	1161	272	933	339	833	380	670	472	548	577	393	804
1400	716	594	1376	193	1084	245	871	305	778	342	626	425	512	520	367	724
1300	624	518	1278	181	1006	230	809	286	722	321	581	399	475	488	341	680
1200	624	518	1180	196	929	249	747	310	667	348	536	432	439	528	315	736

Transmission lock up

Limitations.

80% load is 960 HHP@ 2100 rpm, can be used for 50% of the duty cycle or 6 out of every 12 hours.
70% load is 840 HHP @ 2100 rpm. Operation below this can be used cyclic continuous.
100% load is 1150 HP @ 2100 rpm, Can be used for maximum one hour. The following hour has to be below 70% (840 HHP @ 2100 rpm)

If the speed is lowered to 1800 rpm, the full load is lowered to 1040 HHP.

80% load is 830 HHP@ 1800 rpm.
70% load is 730 HHP @ 1800 rpm.
If these limits are exceeded there will be limited warrant.

For further information please contact Maintenance Diesel Department.

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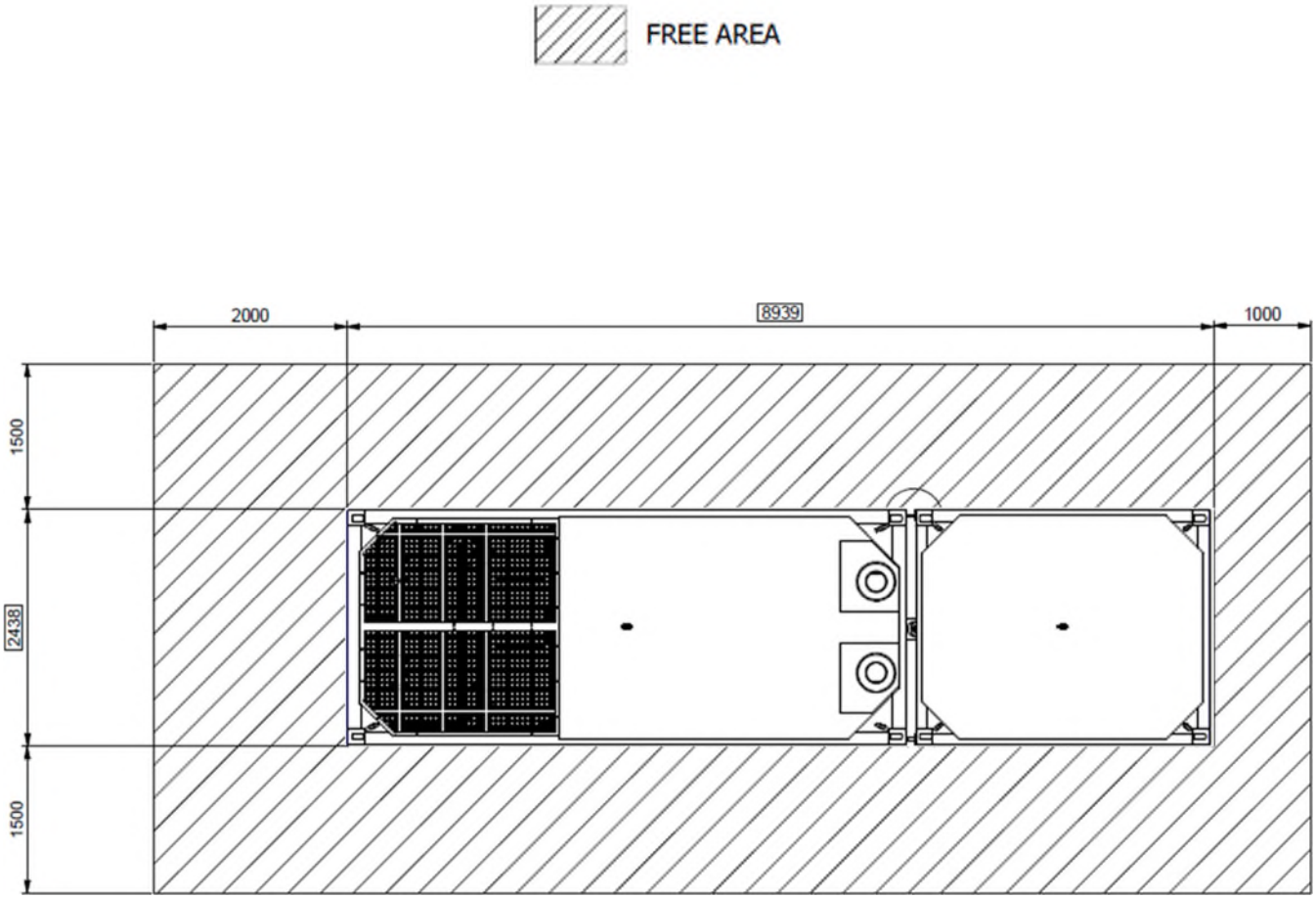
Nødvendig oppkoblingsplass for A + B del