

Do not pass drawing on to third parties without written permission of TREM Engineering SC.

	For offer	Version: 1 Date:							
	For approval		Coordinated: Date:						
	Final for delivery	X	Approved: Date:						

Description: LBI - liquid buffer inlet; LBO - liquid buffer outlet; PSL - pressure switch low; PI - pressure indicator; TI - temperature indicator.



External piping provides fluid for the outer seal of an Arrangement 3 seal. Pre-pressurized bladder accumulator provides pressure to the circulation system. Flow is maintained by an internal pumping ring. Heat is removed from the circulation system by an air-cooled or water-cooled heat exchanger.

		Item	Part No Description Q-ty Materia			Material		Spares Q-ty					
		1	59683	59683 Gland		nd	1	AISI304					
		2	59684 Gland 1 AISI304		1								
		3	59685		Sle	eve	1	AISI304					
1	Customer and equipment data		4	49024		Ma	ting ring assembly	1	1 AISI304/Antimony Carb		Carbon	*	1
1.1	Customer	LUKOIL PETROTEL	5	49031		Ma	ting ring assembly	1	AISI304/Antimony Carbor			*	1
1.2	End user		8	49032		Ma	ting Ring	2 R-SiC				*	2
1.3	Unit	CC		40000									-
1.4	Equipment item number	09-GP10 A,R	9	49020					1				
1.5	Equipment type	Pump	10	49021		Clip	)	4 2Cr13					
1.6	Equipment model	4HNN1-143	11	21169		O-F	Ring	2	Viton			*	2
1.7	Project No		10	21100			Ping	-				 	-
1.8	Seal Chamber			23003		0-1	Ning .	2				*	2
1.9	Order N, date		13	4122		O-F	Ring	2	Viton			*	2
2	Working conditions		15	22701		Gas	sket 2 Gra		Graphit	е		*	2
2.1	RPM	2970	10	14204		Scr	ew	1	A2				1
2.2	Liquid	C3 fraction		14294		001						*	4
2.3	Temperature, °C	46	19	17909		Scr	ew	4	A2			*	4
2.4	Viscosity, cSt	-	20	11701		Scr	ew	6	6 A2			*	6
2.5	Density, kg/m <sup>3</sup>	-	21	10621		Scr	ew	3 42					2
2.6	Suction pressure, kgf/cm <sup>2</sup>	19		13021				5				*	3
2.7	Discharge pressure, kgf/cm <sup>2</sup>	23.9	22	6205		Spr	9 36 Hastell		by-C		*	36	
2.8	Seal chamber pressure, kgf/cm <sup>2</sup>	-	23	21093		Pin		4	A4				
2.9	Saturation pressure, kgf/cm <sup>2</sup>	-	24	21350		Pin		1	ΔΔ				
3	Aux	liary		21559				-	<b>7</b> 4				<u> </u>
3.1	API 682 Plans	53B	$\left  \right $						0550	<b>815</b>	Λ		
3.2	Buffer liquid							D-0330-0434					
3.3	Orifice hole, mm						Maghania				Mass	Sca	ale
3.4	Drawing of plans				Signature	Date	Mechanica						
4	Mechan	ical seal	Designe	d Kuliev	topby -	27.06.12	Installation drawing and parts list		ing			-	
4.1					Alle	21.00.12			-				
4.2	Seal Data						-						
4.3	Data of spare kit				6					JSC TREM Engineering			ering
4.4	Contract, invoice		Approv	ed Batenko	Ham	27.06.12							

A2