



Ariel Lubrication Sheet

Company: A G Equipment Company
Order #: 71768 (AP027722) Rev:4
Case 1: 50-1108

Customer: NGC Compression Solutions
Inquiry:
Project: CAL 14-8141



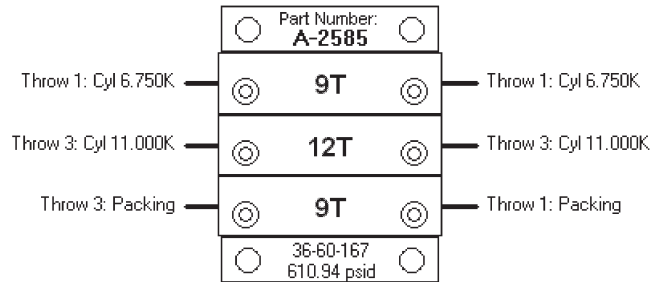
Frame: JGK/4 **Stroke, in:** 5.50 **Rod Dia, in:** 2.000 **Frame S/N:** F31296
Gas Stream: Natural Gas (Water Saturated and/or Heavy hydrocarbons)
Configured: TAHUBBELL - 06/30/2014

Throw	Cylinder Model	MAWP psig	Service	Stage #	Suct Press psia	Disch Press psia	Serial No.
1	6.750K	1900.0	Service 1	3	443.00	1132.18	C134464
3	11.000K	845.0	Service 1	2	176.66	451.56	C166423

Applied Speed, RPM	1200
Cycle Time at Applied Speed, sec	10.0 (see chart, lower right)
Break-In Cycle Time, sec	6.0 (For period of 200 hours)
Recommended lubricant (mineral oil) for application and pressures	<i>SAE 50-60 wt (ISO 220-320) or SAE 40 wt (ISO 150) w/ Compounding</i>

Rupture Disc	Purple 3250.00 psig, 0.250 in hole dia.
Lubricator Pump Diameter	3/8" (0.3750 in)
Qty of Pumps feeding this block	1
Recommended base feed rate	0.50 Pints/day/in of bore diameter

Throw 1, 3



Lube Point Description	Base Rate Multiplier	Recommended Pints/day	Delivered Pints/day	Del/ Rec	RPM	Cycle Time, sec		Pints/day	
						Normal	Break-In	Normal	Break-In
Throw 1: Cylinder 6.750K	1.50	2.53	2.69	106%	1200	10.0	6.0	18.0	29.9
Throw 1: Cylinder 6.750K	1.50	2.53	2.69	106%	1100	10.9	6.5	16.5	27.4
Throw 3: Cylinder 11.000K	1.25	3.44	3.59	104%	1000	12.0	7.2	15.0	24.9
Throw 3: Cylinder 11.000K	1.25	3.44	3.59	104%	900	13.3	8.0	13.5	22.4
Throw 3: Packing	1.25	2.50	2.69	108%	800	15.0	9.0	12.0	19.9
Throw 1: Packing	1.50	3.00	2.69	90%	700	17.1	10.3	10.5	17.4
					600	20.0	12.0	9.0	14.9

****NOTE:** Ariel suggests that delivered/recommended amount for cylinders and packings be within 90 - 125%. These recommendations are general guidelines. If the lubricants or flow rates do not appear to work adequately, flow rates and/or lubricant types may need to be changed. Please contact the lubricant supplier for specific lubricant recommendations. See Section 6 of the Ariel Packager Standards for more information.



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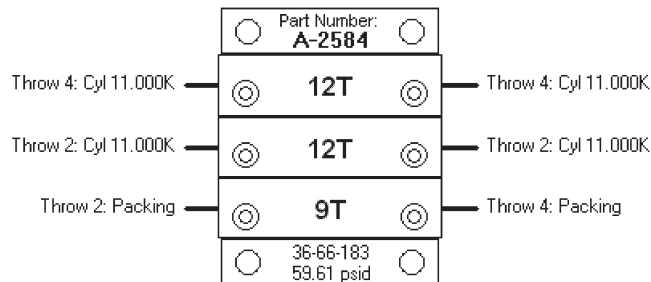
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Configured: TAHUBBELL - 06/30/2014

Throw	Cylinder Model	MAWP psig	Service	Stage #	Suct Press psia	Disch Press psia	Serial No.
2	11.000K	845.0	Service 1	1	62.34	181.56	C166422
4	11.000K	845.0	Service 1	1	62.34	181.56	C166424

Applied Speed, RPM	1200
Cycle Time at Applied Speed, sec	11.0 (see chart, lower right)
Break-In Cycle Time, sec	6.0 (For period of 200 hours)
Recommended lubricant (mineral oil) for application and pressures	<u>SAE 40-50 wt (ISO 150-220)</u>

Rupture Disc	Purple 3250.00 psig, 0.250 in hole dia.
Lubricator Pump Diameter	3/8" (0.3750 in)
Qty of Pumps feeding this block	1
Recommended base feed rate	0.50 Pints/day/in of bore diameter

Throw 2, 4



Lube Point Description	Base Rate Multiplier	Recommended Pints/day	Delivered Pints/day	Del/ Rec	RPM	Cycle Time, sec		Pints/day	
						Normal	Break-In	Normal	Break-In
Throw 4: Cylinder 11.000K	1.25	3.44	3.26	95%	1200	11.0	6.0	18.0	32.9
Throw 4: Cylinder 11.000K	1.25	3.44	3.26	95%	1100	12.0	6.5	16.5	30.2
Throw 2: Cylinder 11.000K	1.25	3.44	3.26	95%	1000	13.2	7.2	15.0	27.4
Throw 2: Cylinder 11.000K	1.25	3.44	3.26	95%	900	14.7	8.0	13.5	24.7
Throw 2: Packing	1.25	2.50	2.45	98%	800	16.5	9.0	12.0	21.9
Throw 4: Packing	1.25	2.50	2.45	98%	700	18.9	10.3	10.5	19.2
					600	22.0	12.0	9.0	16.5

****NOTE:** Ariel suggests that delivered/recommended amount for cylinders and packings be within 90 - 125%. These recommendations are general guidelines. If the lubricants or flow rates do not appear to work adequately, flow rates and/or lubricant types may need to be changed. Please contact the lubricant supplier for specific lubricant recommendations. See Section 6 of the Ariel Packager Standards for more information.



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Special Oil Recommendation

Frame: F31296

Model: JGK/4

This notice is to alert the customer that this unit has a special oil recommendation that may require that the force feed lubricator, which supplies lubricating oil to the compressor cylinders and piston rod packings, have an independent oil supply.

This oil recommendation is based on the gas composition and operating conditions provided. Please refer to the ARIEL CORPORATION Lubrication Sheet(s) for the details of the above frame including the correct cylinder bore sizes and throw positions.

Avoid mixing oil types that are not compatible with each other. Contact the oil manufacturer regarding the compatibility of their product with other fluids. A system flush may be required when changing to a different fluid.

The following information should be reviewed regarding Independent Oil Supply in Section 6 Lubrication of the Reciprocating Packager's Standards within Ariel's Application Manual.

Paragraphs:
Independent Oil Supply
Cylinder Lubrication
Lubricator Cycle Time
Warranty

Contact Ariel

Contact	Telephone	FAX	E-Mail
Ariel Response Center	888-397-7766	740-397-1060	arc@arielcorp.com
Spare Parts	(toll free USA-Canada) or	740-393-5054	spareparts@arielcorp.com
Order Entry	740-397-3602 (International)	740-397-6450	----
Ariel World Headquarters	740-397-0311	740-397-3856	info@arielcorp.com
Technical Field Service			fieldservice@arielcorp.com