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## Background

Location: South America 9 packages 147 Tons

High suction pressure compression unit of 5000 PSI, speed of 1000 RPM, 3550 HP, 10 MMSCFD flow rate.

Currently, it's a brand new equipment in its import crates (9 packages) been kept in a warehouse. It arrived in July 2015 for a project, but the project was cancelled. The compressor unit was never used or installed, having undergone a preservation maintenance in 2019.

Motor Caterpillar G3612 LE Compressor Ariel JGD/6



This picture is for reference purpose, of a similar twin unit that was installed in anOffshore Oil Platform

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# **Unit Identification**

### Motor

#### **Driver Information**

Type: Nat. Gas Mfg: Caterpillar Model: G3612 LE RPM: 1000.0

#### Compresor

Ariel JGD/6 Stroke: 5.50 in Class: JGD Frame: Number of Throws: Rated Power: Frame Friction Power: Cyl Friction Factor: Guide Type:

6 6210.0 BHP 57.00 BHP 0.95 Separate

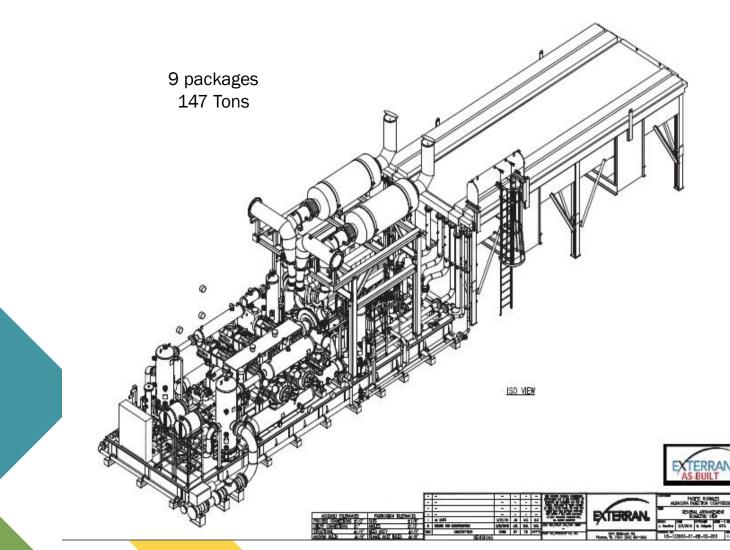
#### Speed Ratings:

Rated Piston Speed @ RPM:	1100.0 FPM
Maximum Speed:	1200.00 RPM
Minimum Speed:	600.00 RPM

EQUIPMENT	NAME &	SERIAL NO.	
COMPRESSOR	Ariel	F-49355	
	THROW 1	6.750	C-174625
CYLINDERS	THROW 2	4.625	C-174626
	THROW 3	17.875	C-174627
	THROW 4	9.625	C-174628
	THROW 5	17.875	C-174629
	THROW 6	9.625	C-174630
MOTOR/ENGINE	Caterpi	BKE00756	
COOLER	AXC	14084201	
CONTROL PANEL	Mu		
FILTER	Pro	FF-187	

COOLER HARSCO Serial Number 14084202

#### www.PetroRigs.com Supporting Documents





- Factory Tests (FAT) and Site Tests (SAT).-
- Drawings
- Documents such as calculation reports, operation curves of the motor compressor, dynamic analysis of the reciprocating compressor installed in a floating unit.
- List of parts.

### **Technical specifications**

WCP	<b>9.625D</b> Bore: 9.625 MAWP:1270.0 6''- 600 FF 0/0	5 STD	JGD/6 Stroke: 5.50 Rated RPM: 1200 Rated BHP: 6210.0 Serial Num: Options: NoFlow: DNFT Non-Pro	6 STD	9.625D Bore: 9.625 MAWP:1270.0 6''- 600 FF 0/0 6.750D10	WCP
WCP	<b>17.875D</b> Bore: 17.875 MAWP:445.0 Ariel Peanut 0/0	3 STD	Externally Lubricate LOThmVIv: Unmounted Balance and Lube IntFlywh: 19920 lb-i	4 STD	6.750710 Bore: 6.750 MAW/P:2415.0 6"- 1500 FF 0/0 4.625D-TR-VS	
WCP	<b>17.875D</b> Bore: 17.875 MAWP:445.0 Ariel Peanut 0/0	1 STD		2 STD	Bore: 4.625 MAWP:6700.0 .3-1/2'' PC-4A 0/0	
5	Revisión anual		27 de marzo de 2	024		

Model: JG		ame Data Sheet oke: 5.50 in	Class: (JG	D)
Frame:		Weights:		
Number of Throws:	6		the without Oulindere:	22700.00 lbs
Rated Power:	6210.0 BHP		ht without Cylinders:	830.30 lbs
		Maximum	Recip: Imbalance:	
Frame Friction Power:	57.00 BHP			2.50 lbs
Cyl Friction Factor:	0.95	Crankshaf		2650.00 lbs
Guide Type:	Separate	Connectin		165.50 lbs
Constant Definition		Pin Assem		55.70 lbs
Speed Ratings:	1400 0 EDM	Stub Shaft	E	5.30 lbs
Rated Piston Speed @ RPM:				
Maximum Speed:	1200.00 RPM			
Minimum Speed:	600.00 RPM			
Minimum PRC Speed:	500.00 RPM			
Maximum Non-Lube Speed:	750.00 RPM			
Maximum Process Speed:	750.00 RPM			
Frame Dimensions:		Component [		
Center Line Height:	22.00 in		d Diameter:	2.500 in
Max. Overall Height:	37.00 in		g Rod Center Distance:	
Max. Overall Width with Cylind			ft Pin Diameter:	7.125 in
(Std Guide, widest dbl. Cyl, N			ft Journal Diameter:	7.125 in
Length:	159.00 in	Main Bear	ing Width:	4.188 in
Internal Gas Rod Loads:		Lubrication:		
Total:	114000 lbf	Oil Pump	Flow Rate:	116.3 GPM
Compression:	60000 lbf	Oil Sump (		105.0 gal
Tension:	57000 lbf	Oil Heat R		177000.0 BTU/h
Single Acting Tension:	57000 lbf		ojoenen.	
Congret of Congretation				
M terial Specifications:		Ariel Spec	(Reference)	
Crankcase:	Gray Iron	12G	(ASTM A48 Class 30	0)
Crosshead Guide:	Gray Iron	12G	(ASTM A48 Class 30	
Crankshaft:	Forged Alloy Steel	20N	(ASTM A668 Class	
Connecting Rod:	Forged Carbon Steel	18N	(ASTM A521 Class /	
Main Bearing:	Tri-metal		(Tri-metal)	
Thrust Bearing:	Bronze	11B	(SAE 64)	
Connecting Rod Bearing:	Tri-metal		(Tri-metal)	
Crosshead:	Ductile Iron	16D	(ASTM A536 Grade	65-45-12)
Crosshead Pin:	Alloy Steel	100	(AISI 8620)	00-10-12)
Crosshead Pin Bushing:	Bronze	10B	(SAE 660)	
Stress Bolts, standard:	Grade 8	100	(Grade 8)	



## Thank you!

To schedule a visit or request more information, please visit www.PetroRigs.com