



ASC 100D Service Plan

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CompAir Air Pressure Test

Description of Equi	ipment: 437 Compresso	or Block			Un	it #:		
Vee Type Four Stage Two Crank Single Actir Reciprocatin Water Coole	ng ng							
	Target				Actual		Speed Ad	justed
Customer Unit of Pressure	PSIG							
Customer RPM	1800		Atmospheri	ic	1745			
			Raised Inle	t				
Customer Free	157		Atmospheri	ic	161.34		166.43	
Air Delivery M ³ / Hr			Raised Inle	t				
Inlet Pressure								
Outlet Pressure	5003.8				5003.8			
Final Delivery Safety Valve Set @					5584			
Test Motor Used	63.3KW	Volts		440		RPM		
Motor No.	03.3K W	Amps		440		Cycles		
Manufacturer		KW				Phase		
Туре		KVV				Filase		
Test Performed By:	:			Dated	d:	1		

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HSK1201	HSK1228	HSK1236	HSK1244	HSK1252	HSK1244	HSK1236	HSK1228	HSK1260	HSK1279
		lns	tal	lat	hs ior ce	ı/L	as		

		100	1500	3000		4500	0009		7500	0006					
Task	Commission		10500 1	1		13500 4			16500 7	0,	18000	Preparatory Task	Task Description	Parts Provided	Qty
		X	X	X	X	X	X	X	X	X			Replace inlet filter	Filter element	1
1		X	4	X	X		X	X		X	X	+4	Clean sump		
NOTE	S			Т		_		_					Increational and Delt Tenning	I	Ī
2		X	X	X	X	X	X	X	X	X	X		Inspect/replace Belt Tension or Drive coupling		
NOTE	ES		-	-	-	_	_		_		_		I have a bloom because in a		
3										X	X		Inspect/replace corrosion rods	Corrosion rods kit	1
NOTE			_			_									
4		X		X	X		X	X		X	X		Remove crankcase doors	Door joints	4
NOTE 5	X									X	X	+7+4	Replace oil	CompAir Mineral lubricant 20 Litres	3
NOTE 6	ES	X		X	X		X	X			Ī	+7+4	Replace oil	Reavellite S lubricant 20 Litres	2
														Reavellite S lubricant 5 Litres	1
NOTE	ES						.,		- 1				(=		
7		X	X	X	Х	Х	X	Х	X	Х	Х		Replace Oil filter	Oil filter	1
NOTE 8	5		X	X	X	X	X	X	X				Replace water pump impellor(ONLY)	Impellor kit	1
NOTE 9	ES	×	X	X	X	X	X	X	X	X	X		Remove 4th stage valve cover	Cover O ring	1
		\dashv	\top	$^{+}$									COVCI	Cover O ring	1
				1	1									Back up ring	
NOTI	ES		- 02												
10			X			X			X			+9	Service 4th stage valve	Valve kit	1
NOTI 11	E9_		T	X	X		X	X		X	X	+9	Replace 4th stage valve	Valve assy	1
			- 1	X				X		X		.0	Inspect 4th stage liner @ 3000, 9000 & 15000 Hrs	valve assy	
NOT	ES												,,		
12					X		X				X	+9+4	Replace 4th stage liner @ 6000, 12000 & 18000 Hrs	Liner assy	1
NOT	ES														
13				X	X		X	X		X	X	+9	Replace 4th stage piston/ring assy	Piston assy	1
14	ES							,		X	X	+9+4	Replace 4th stage X-head / small end	Bearing S/E	1
	2													gudgeon pin	1
		9 - 5												Circlips	2
NOTI	ES		-//								2/2			54	

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HSK1201	HSK1228	HSK1236	HSK1244	HSK1252	HSK1244	HSK1236	HSK1228	HSK1260	HSK1279
			7777	nt		-72		9-11	

Service Or

		100	8	3000		4500	00	П	7500	0006					
		7	1500	8		45	9		75	8			-		
Task	Commission	9100	10500		12000	13500		15000	16500		18000	Preparatory Task	Task Description	Parts Provided	Qty
15										X	X	+9	Inspect/replace 4th big end bearings	Bearing Shells Pair	1
														Big end bolts	2
NOTE	S			_		_							T	-	
16			X	X	X	X	X	X	X	X	X		Remove 3rd stage valve cover	Cover O ring	2
														Cover O ring	2
NOTE	S	_	_	_	_	_	_	_			_				
17			X	X	X		X	X	X		-	+16	Inspect & Clean 3rd stage valve	O ring- valve to valve cover	1
NOTE	S		-	_								0.000.20			f s
18				4		X						+16	Service 3rd stage valve	Valve kit	1
NOTE	5		-	_						V	X	+16	Replace 3rd stage valve	Valve assy	1
NOTE	S		-	4		_	-	_		_^	_^	+10	Replace Sid stage valve	valve assy	28
20						X				х	X	+16+4	Replace 3rd stage piston assy	Piston assy	1
NOTE	S												10		- Are
21		-4	X	v	v	X	Х	Х	X	X	X	+16+4	Replace 3rd stage liner Inspect 3rd stage liner	Liner asy	1
NOTE	S		^	^	^	9	^	^	_^		- 5		mapeet ard stage inter		
22										х	х	+16+4	Replace 3rd stage X head / small end	Bearing S/E	1
				T		П								Gudgeon pins	1
														Circlips	2
NOTE	S		-	_	_	_	_	_		_			1		
23										Х	Х	+4	Inspect/replace 3rd big end bearings	Bearing Shells Pair	1
														Big end bolts	2
NOTE	S	-		-		_								T	T ²
24						Х				Х	Х		Remove 2nd stage valve cover	Cover O ring	1
														Cover O ring	1
NOTE	S	_	_	_	-	,,	_	_			-			1171 18	1 12
25		_		Ц	\Box	X						+25	Service 2nd stage valve	Valve kit	1
NOTE 26	5	-	-	_						V	V	+25	Replace 2nd stage valve	Valve assy	1
20	H	+	+	+	\dashv	\dashv	\dashv	-	-	X	X	120	Inspect 2nd stage piston	valve assy	
NOTE	S			_1	_		_	-	_		^\		mopout Zna diago pidion		
27										X	X	+29+25 +4	Replace 2nd stage piston rings	Piston ring kit	1
						П				Х	X		Inspect 2nd stage liner		
+	S		-	_			_							144 E	10

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HSK1201	HSK1228	HSK1236	HSK1244	HSK1252	HSK1244	HSK1236	HSK1228	HSK1260	HSK1279
		Ins	tal	nt lat	ioi	ı/L	as	3	

	-				rvi		Oi		_	-				
		100	3000		4500	0009		7500	0006					
Task	Commission	9100	10500	12000	13500		15000	16500		18000	Preparatory Task	Task Description	Parts Provided	Qty
28									X	X		Remove 2nd stage liner	O ring	2
													O ring	1
NOT	ES													
29									X	X		Deglaze 2nd stage liner		
NOT	ES									_				_
30									Х	X	+30+25 +4	Replace 2nd stage small end	Bearing S/E	1
													Gudgeon pins	1
								,,					Circlips	2
NOT 31	ES								X	X	+4	Inspect/replace 2nd big end bearings	Bearing Shells Pair	1
	\top		1	1			Г						Big end bolts	2
NOT	ES			-		_			- 3					100
32					X	Ž			X	X		Remove 1st stage valve cover	Cover O ring	2
NOT	ES						_							
34					X						+33	Inspect & clean 1st stage valve	O ring- valve to valve cover	1
NOT	ES											7	W.	ge .
35			.,						X	X	+33	Replace 1st stage valve	Valve assy	1
	\perp								X	X		Inspect 1st stage piston		
NOT	ES								_				1	
36									X		+37+33 + 4	Replace 1st stage piston rings	Piston Ring Kit	1
					X				X	X		Inspect 1st stage liner		
NOT	ES	,		_	_				201		1			
37									X	X		Deglaze 1st stage liner		
NOT	ES			-	_					,,,			The same too	1 -
38			_	-			_		X	Х	+33 + 4	Replace 1st stage small end	Bush	1
			-										Gudgeon pin	1
NOT		Ш											Circlip	2
NOT	ES				1		_			-		Inapport/sortess his and		
39									X	X	+4	Inspect/replace big end bearings	Bearing Shells Pair	1
120200000							_						Big end bolts	2
NOT	ES		_							,,,			1	
40									X	X		Inspect crankshaft		
NOT	ES			_	_						-		T	_
41									X	X	IF FITTED	Service water valve-U231.H	Service kit	1
NOT	ES													

S	er	vic	e ł	(it	Νu	ım	be	r	
HSK1201	HSK1228	HSK1236	Z	HSK1252	Z	Z	Ş	HSK1260	HSK1279
		12							

		_
12 Months From Installation/Last Service Or	ASC 100D Unit #:	

			100	1500	3000		4500	0009		7500	0006					
SINOLLINA	Task	Commission		10500			13500		15000			18000	Preparatory Task	Task Description	Parts Provided	Qty
	42										X	X		Replace main bearing & oil seal D/E	Bearing bush	1
															Joint	1
4	NOTE								_						Brg. Hsg. Oil seal	1
	NOTE 43										X	X		Remove end cover-oil pump plate O/E	Joint end cover	1
4	NOTE	S					1	_	_	_			. 10	D-1	Danie Lak	-
+	44	-	_			_	1	-	-	\vdash	X	X	+42	Replace main bearing O/E	Bearing bush Joint-O/E bearing hsg.	1
+	NOTE	2										Ь.			Joint-O/E bearing risg.	
	45										X	X	+42	Replace oil pump	Oil pump with coupling & gasket	1
	NOTE 46	S				33					X	X	+42 IF FITTED	Replace water pump drive chain	chain	1
	NOTE	S					,	_	,	_					7 T 1	r
	47										×	X	+42 IF FITTED	Service water pump	seal & impellor kit	1
															Joint-water pump bracket	1
															Joint-water pump	1
															Joint-water pump IN/OUT	2
	NOTE	S					77					_		··	50°	42
	48					157	X				X	X		Replace bursting discs (Radiator Set @9000hrs.)	Bursting discs kit	1
1	NOTE	S					_	_	_	_				T 300 - 30 - 30 - 30		
	49						X				X	X		Replace drain valve diaphragm	Service kit	2
_						15			_	_	-				Screw seal	2
															Joint-drain to surge vessel	4
1	NOTE	S					2/2								· ·	0
	50						X						+48	Replace diaphragm drain valves &seats 4thStage	4th valves &seats	1
	NOTE	S														
	51						OX.				X	X		Inspect/replace diaphragm drain valves &seats	1st/2nd valves &seats U334L	1
	NOTE	S					fi) .e.	10	Å.					<u> </u>	000	177
	52														3rd/4th valves &seats U334J	2
+	NOTE	S	_				1	100	1	-	-			1		10

S	Service Kit Number									
HSK1201	HSK1228	HSK1236	HSK1244	HSK1252	HSK1244	HSK1236	HSK1228	HSK1260	HSK1279	
12 Months From										
	Installation/Last									

НSК		_
Ï	ASC 100D Unit #:	

				"				ior ce			[
			100	3	8		8	00		00	8					
			9	1500	30		4500	9		7500	0006					
Run Hours	Task	Commission	9100			12000			15000			18000	Preparatory Task	Task Description	Parts Provided	Qty
	53										Χ	X			Joint 1st&2ndstage	1
		\top	П	\forall	\forall										Joint 1st stage	1
			П	\neg	\neg										Joint 2nd stage	1
			П	\exists											Joint 2nd stage	1
	NOTE	S														
	54										X	X		Inspect test 1st/2nd stage cooler	O ring	4
	NOTE	S									_					,
	55		Ш	\perp	\perp						Х	X		Inspect test 3rd stage cooler	O ring	2
			Ш	\perp	\perp										O ring	2
															O ring	1
															Tension pin	1
															Circlip retaining	1
	NOTE	S												,		
	56	\perp	Ш	4	_						X	X		Inspect test 4th stage cooler	O ring	2
															O ring	2
	NOTE	S		_	_											
	57		Ш	4	4							X		Suction filter silencer	Silencer	1
<u> </u>	NOTE														Joint	1
	NOTE 58	3												Inspect/test safety valves in accordance with regional requirements		
	NOTE	S		_										, ,		
	59										Χ	X			1st stage	1
	NOTE	S													•	
	60			\Box	\Box						X	X			2nd stage	1
	NOTE	S		_	_											
\vdash	61										X	X			3rd stage	1
\vdash	NOTE	:S		_	_						V	V		1	4th atags	1
\vdash	62 NOTE										X	X			4th stage	1
\vdash	NOTE 63	:o		\neg	\neg						Y	X		T	Surge vessel	1
\vdash	NOTE	<u>.</u>	Ш								_^			I	_ Julye vessel	
	64 NOTE										X	X		Test pressure gauges	1st stage	1
\vdash	65	. <u>s</u>		\neg	\neg						Х	X			2nd stage	1
	NOTE	S													, ,	
	66										X	X			3rd stage	1
	NOTE	S														
Ĺ	67			\perp	\bot						X	X			4th stage	1
	NOTE	ES													1	
	68										X	X			Oil	1
	NOTE	ES_														

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HSK1201	HSK1228	HSK1236	HSK1244	HSK1252	HSK1244	HSK1236	HSK1228	HSK1260	HSK1279
		12 Ins	tal	lat		ı/L			

		- 0			-		CC								
		Commission	1500	3000		4500	0009		7500	0006					
Run Hours	Task		9100		12000	13500		15000	16500		18000	Preparatory Task	Task Description	Parts Provided	Qty
	NOTE	S													
	69	9			_	Test temperature switches	3rd stage	1							
	NOTE	S									2 - 37		160		
	70					X			Final stage	1					
	NOTE	NOTES													
	71				Test non return valve non return valve										
	NOTE	ES		707											
	72									X	X			Seal	1
	NOTE	S													

John Deere 4045 Lubrication and Maintenance Service Interval Chart—Standard Industrial Engines

NOTE: The service intervals below are for standard industrial engines.

		Lubrication and Maintenance Service Intervals								
Task	Item	Daily	500 Hour/ 12 Month	2000 Hour/ 24 Month	As Required					
1	Check Engine Oil and Coolant Level									
Notes:										
2	Check Fuel Filter/Water Bowl	•								
Notes:										
3	Check Air Cleaner Dust Unloader Valve and Restriction indicator Gauge ^a	•								
Notes:										
4	Visual Walk Around Inspection	•								
Notes:										
5	Service Fire Extinguisher		•							
Notes:										
6	Check Engine Mounts		•							
Notes:										
7	Service Battery		•							
Notes:										
8	Change Engine Oil and Replace Oil Filter bc		•							
Notes:										
9	Check Crankcase Vent System		•							
Notes:										
10	Check Air Intake Hoses, Connections, & System		•							
Notes:										
11	Replace Fuel Filter Elements		•							
Notes:										
12	Check Automatic Belt Tensioner and Belt Wear		•							
Notes:										
13	Check Engine Electrical Ground Connection		•							
Notes:										
14	Check Cooling System		•							
Notes:										
15	Coolant Solution Analysis-Add SCAs as required		•							
Notes:										
16	Pressure Test Cooling System		•							
Notes:										
17	Check Engine Speeds		•							
Notes:										

John Deere 4045 Lubrication and Maintenance Service Interval Chart—Standard Industrial Engines

NOTE: The service intervals below are for standard industrial engines.

		Lubrication and Maintenance Service Intervals							
Task	Item	Daily	500 Hour/ 12 Month	2000 Hour/ 24 Month	As Required				
18	Check Crankshaft Vibration Damper (6.8 L Engines)d			•					
Notes									
19	Flush and Refill Cooling System c			•					
Notes									
20	Test Thermostats			•					
Notes									
21	Check and Adjust Engine Valve Clearance								
Notes									
22	Add Coolant				•				
Notes									
23	Replace Air Cleaner Elements				•				
Notes									
24	Replace Fan and Alternator Belts								
Notes									
25	Check Fuses			•	•				
Notes									
26	Check Air Compressor (If Equipped)			•	•				
Notes									
27	Bleed Fuel System				•				
Notes									
28	Replace Air Cleaner Elements				•				

^aReplace primary air cleaner element when restriction indicator shows a vacuum of 625 mm (25 in.) H2O.

^bDuring engine break-in, change the oil and filter for the first time before 100 hours of operation.

cervice intervals depend on sulfur content of the diesel fuel, oil pan capacity, and the oil and filter used, which means that intervals may be REDUCED. (See DIESEL ENGINE OILAND FILTER SERVICE INTERVALS in Fuels, Lubricants, and Coolant Section.)

dReplace crankshaft damper every 4500 hours or 60 months, whichever occurs first.

Lubrication and Maintenance Service Interval Chart—Generator (Standby) Applications

NOTE: Use service intervals listed below for generator (standby) applications. Match service items Sections for procedures.

		Lubrication and Maintenance Service Intervals										
Task	Item	Every 2 Weeks	500 Hours or 12 Months	2000 Hours or 24 Months	As Required							
1	Operate Engine at Rated Speed and 50%–70% Load a Minimum of 30 Minutes	•										
Notes	s:											
2	Check Engine Oil and Coolant Level											
Notes												
3	Check Fuel Filter/Water Bowl											
Notes												
4	Check Air Cleaner Dust Unloader Valve & Restriction Indicator Gauge ^a	•										
Notes	X.											
5	Visual Walk Around Inspection	•										
Notes): :											
6	Service Fire Extinguisher											
Notes	8:											
7	Check Engine Mounts		<u> </u>									
Notes	Si:											
8	Service Battery		•									
Notes): :											
9	Change Engine Oil And Replace Oil Filter b c		•									
Notes););											
10	Check Crankcase Vent System		•									
Notes	S:											
11	Check Air Intake Hoses, Connections, & System											
Notes	S:											
12	Replace Fuel Filter Elements											
Notes	3:											
13	Check Automatic Belt Tensioner and Belt Wear		*									
Notes	s:											
14	Check Engine Electrical Ground Connection		•:									
Notes):											
15	Check Cooling System		*									
Notes	s:											
16	Coolant Solution Analysis-Add SCAs as required		•									
Notes	S:											
17	Pressure Test Cooling System		•									
Notes												

Lubrication and Maintenance Service Interval Chart—Generator (Standby) Applications

NOTE: Use service intervals listed below for generator (standby) applications. Match service items Sections for procedures.

		Lubrication and Maintenance Service Intervals								
Task	Item	Every 2 Weeks	500 Hours or 12 Months	2000 Hours or 24 Months	As Required					
18	Check Engine Speeds		•:							
Notes	s:									
19	Check Crankshaft Vibration Damper (6.8 L Engines) d									
Notes	S:									
20	Flush and Refill Cooling System									
Notes	S:									
21	Test Thermostats			•						
Notes	s:									
22	Check and Adjust Engine Valve Clearance									
Notes	s:									
23	Add Coolant				•					
Notes	s:									
24	Replace Air Cleaner Elements				•					
Notes	s:									
25	Replace Fan and Alternator Belts				300					
Notes	b:									
26	Check Air Compressor (If Equipped)				5 9 6					
Notes	S:									
27	Test Thermostats									
Notes	S:									
28	Bleed Fuel System				•					
Notes	\$:									

^aReplace primary air cleaner element when restriction indicator shows a vacuum of 625 mm (25 in.) H2O.

^bDuring engine break-in, change the oil and filter for the first time before 100 hours of operation.

cService intervals depend on sulfur content of the diesel fuel, oil pan capacity, and the oil and filter used, which means that intervals may be REDUCED. (See DIESEL ENGINE OIL AND FILTER SERVICE INTERVALS in Fuels, Lubricants, and Coolant Section.)

dReplace crankshaft damper every 4500 hours or 60 months, whichever occurs first.