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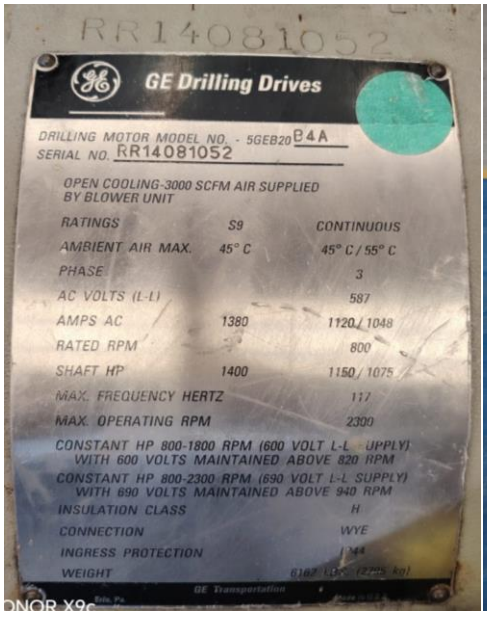
Power Services FZCO

AC Motor - Ex e Completion Report

Parts fitted on Arrival				Quote ref : 33589	Start date:	Job No.
Terminal Box		Pulley		Date : 28.07.2025	27.07.2025	WX-25147
Terminal Lid		Coupling		Accepted date:	Completion date :	Customer:
Terminal Block		Hub x2	Yes	28.07.2025	28.07.2025	CLAYMORE
External Fan		Sprocket		PO No	PO-069-25	
Ext. Fan Cover		Pinion		Arrival Date:	22.07.2025	
Eye Bolts		Gearbox		Delivered By	Customer	
Side Covers		Pump		Manufacturer	GE	
Colour	GRAY			Checked In By	Dwen	

HP	1150/1075	KW	-	KVA	-	Volts	587	Duty	Cont
Amps	1120/1048	Hz	117	Phase	3	RPM	2300		
Serial No.	RR14081052			Frame	-	Type	5 GEB 20 B4A		
Additional Details									



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ELECTRICAL AND MECHANICAL TEST CHECK LIST

S#	Test Description	Yes(√)	No (x)	Remarks
	Electrical			
1	Resistance test	Yes(√)		
2	Insulation Resistance test	Yes(√)		
3	Polarization index test (PI)	Yes(√)		
4	Surge test			
5	Hi Pot test			
6	Partial discharge test			
7	Tan delta test			
8	Core test			
9	Growler test			
10	Pole test			
11	Impendence test			
12	Drop Test			
13	Wedge Map test			
14	Vibration test	Yes(√)		
15	Temperature test	Yes(√)		
16	Thermography test			
17	No Load Run-test	Yes(√)		
	Mechanical Test			
18	MPI Test			

Shaft	Hub	Pinion	Pulley	Sprocket	Coupling

Stator feet	Stator frame	End shields	Blower Fan	Lifting Point

19	LPE Test		
	SS and Aluminum Casing	Blower Motor	

20	Rotor Runout Check					
21	Rotor Mechanical Dimension					
22	Housing Dimensions					
23	Flame path dimensions					
24	Rotor Balancing					
25	Initial End float / Radial Checks	√	√			
26	Final End float / Radial Checks					
27	Blue Match test					

HUB	Pinion	

28	Other tests (If Any)					

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INTERNAL RUN TEST RECORD

Time		Start	15 mins	30 mins	45 mins	60 mins	75 mins	90 mins	105 mins	120 mins			Remarks
Voltage	Volts	347	347	444	441	444	444	443	443	443			
Hz	Hz	40	40	60	80	60	60	60	60	60			
Current U	Amps.	128.2	128.0	138.4	102.3	138.0	138.0	137.0	137.0	137.0			
Current V	Amps.	129.3	129.0	139.9	103.3	139.0	139.0	138.0	138.0	138.0			
Current W	Amps.	128.0	128.0	137.5	101.5	137.0	137.0	137.0	136.0	136.0			
Case Temp.	°C	38	40	44	47	53	56	60	63	65			
NDE Bearing Temp.	°C	38	40	44	46	50	52	55	57	57			
DE Bearing Temp.	°C	38	40	40	41	42	43	44	46	46			
Stator RTD 1	Ohms	116.8		120.2		126.2		128.2		129.8			
Stator RTD 2	Ohms	116.9		120.6		126.4		128.3		129.9			
Stator RTD 3	Ohms	116.9		120.4		126.4		127.8		129.9			
Stator RTD 4	Ohms	116.6		120.4		126.3		128.1		129.6			
Stator RTD 5	Ohms	116.8		120.3		126.5		127.8		129.8			
Stator RTD 6	Ohms	116.8		120.1		126.2		127.7		129.8			
Bearing RTD DE	Ohms												
Bearing RTD NDE	Ohms												
Relative Humidity	%	10	10	10	10	10	10	10	10	10			
Ambient Temp.	°C	38.6	38.8	39.2	39.2	39.6	39.6	39.6	40.1	40.1			
VIBRATION	RMS												
DE Vertical	mm/sec	0.409								0.822			
DE Horizontal	mm/sec	0.481								1.140			
DE Axial	mm/sec	0.675								2.880			
NDE Vertical	mm/sec	0.473								0.670			
NDE Horizontal	mm/sec	1.400								1.010			
NDE Axial	mm/sec	0.692		2.680	1.360					3.000			
Speed	RPM												

Customer :	CLAYMORE	Date :	27.07.2025
Job No. :	WX-25147	Tester :	Santhosh
Instrument No	TE - 18, 30, 31, 66, 91, 111, 114	Witnessed by :	Mahesh
Comments if any	End float - 0.86mm // Initial DE radial - 0.17mm / NDE radial - 0.10mm.		

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Incoming Inspection Report

Customer:	CLAYMORE	**Customer Ref.:**			
Machine & Certification Details		**Order No.:**	PON-069-25		
Manufacturer	GE	**HP**	1150/1075	**Frame**	-
Serial No:	RR14081052	**Volts**	587	**IP Rating:**	44
Ex Type	Exe IIC T3 Gb, II2 Gc	**Amps**	1120/1048	**Hz:**	117
		RPM	2300	**Ins. Class:**	H
Protection Type:	Ex e / Ex p / Ex n	**Temp. Rating**	T3	**tE Rating:**	-
Year of Manufacture	2009			**Mounting:**	Foot
Standard	IEC / UL / ATEX				

Ex Certificate Number	SIRA 09 ATEX 3076 X

IEC	**Group**	I	II	III	II A	II B	II C	G	D	ZONE	1	2	
UL	**Class**	I	II	III	A B C D / D E F G	Division	1	2					

Other Details :

Special Certification Manufacturer'sRequirements? :	
Are Manufacturer's certification details available? :	

Incoming Inspection Results

Insulation Resistance :	**Voltage**	500
Phase To Earth	**Value**	
U1 - E	550	**M Ω**
V1 - E	550	**M Ω**
W1 - E	550	**M Ω**

Phase To Phase	**Value**	
U1 - V1	-	**M Ω**
V1 - W1	-	**M Ω**
W1 - U1	-	**M Ω**

Winding Resistance	38.0	**^{0}C**
Phase To Phase	**Value**	
U1 - V1	0.0150	**Ω**
V1 - W1	0.0149	**Ω**
W1 - U1	0.0149	**Ω**

Temperature Detectors:	38.0	**^{0}C**
Windig RTD 9nos	116.8	**Ω**

No Load Test:	**RPM**	1200
Phase	**Current (60Hz - 444V)**	
L1	138.4	**Amps**
L2	139.9	**Amps**
L3	137.5	**Amps**

Vibration Test:				
	Drive End		**Non Drive End**	
Horizontal	1.16	**mm/sec**	1.12	**mm/sec**
Vertical	0.85	**mm/sec**	0.587	**mm/sec**
Axial	2.69	**mm/sec**	2.68	**mm/sec**

Additional information after inspection

Winding Heater 4nos = 136.1, 136.4, 136.2, 136.1Ω
IR = 550MΩ @ 500VDC
PI TEST @ 1000V
1 min - 771MΩ
10 min - 3.19GΩ
PI - 4.23

Scope of work :

1 Received Motor in WWPS Workshop for runtest.
2 Performed Visual inspection.
3 Checked endfloat, radial readings and recorded the reading.
4 Conduct electrical static test and recorded the readings.
5 Run tested and record all the parameters.
6 Test results Good.
7 Clean and ready for dispatch.

Booked By		**Dismantled By**		**Inspected By**		**Remarks**
Sign	Dwen	**Sign**		**Sign**		
Name	Dwen	**Name**		**Name**		
Date	22.07.2025	**Date**		**Date**	27.07.2025	

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EQUIPMENT FOR CALIBRATION & CERTIFICATION

WWPS No.	DESCRIPTION	CERT. NO	SERIAL NO	CALIB. DATE	DUE DATE
TE-18	FLUKE 376 1000A AC/DC TRUE-RMS CLAMP METER	CRT81491	16441125	27/05/2025	26/05/2026
TE-30	Fluke - 287/eur	2025000528	66550077	13/02/2025	12/02/2026
TE-31	FLUKE 1507 Insulation tester	CRT58731N	50580646WS	07/11/2024	06/11/2025
TE-66	Fluke Infred Thermometer Model 63	CRT53616N	34830005WS	18/07/2025	17/07/2026
TE-91	FLUKE Megger	CRT74996	101110254	15/11/2024	14/11/2025
TE-111	IRD Model 258 Portable Balancer/Vibration Analyser	09-C529036	1212087	20/06/2025	20/06/2026

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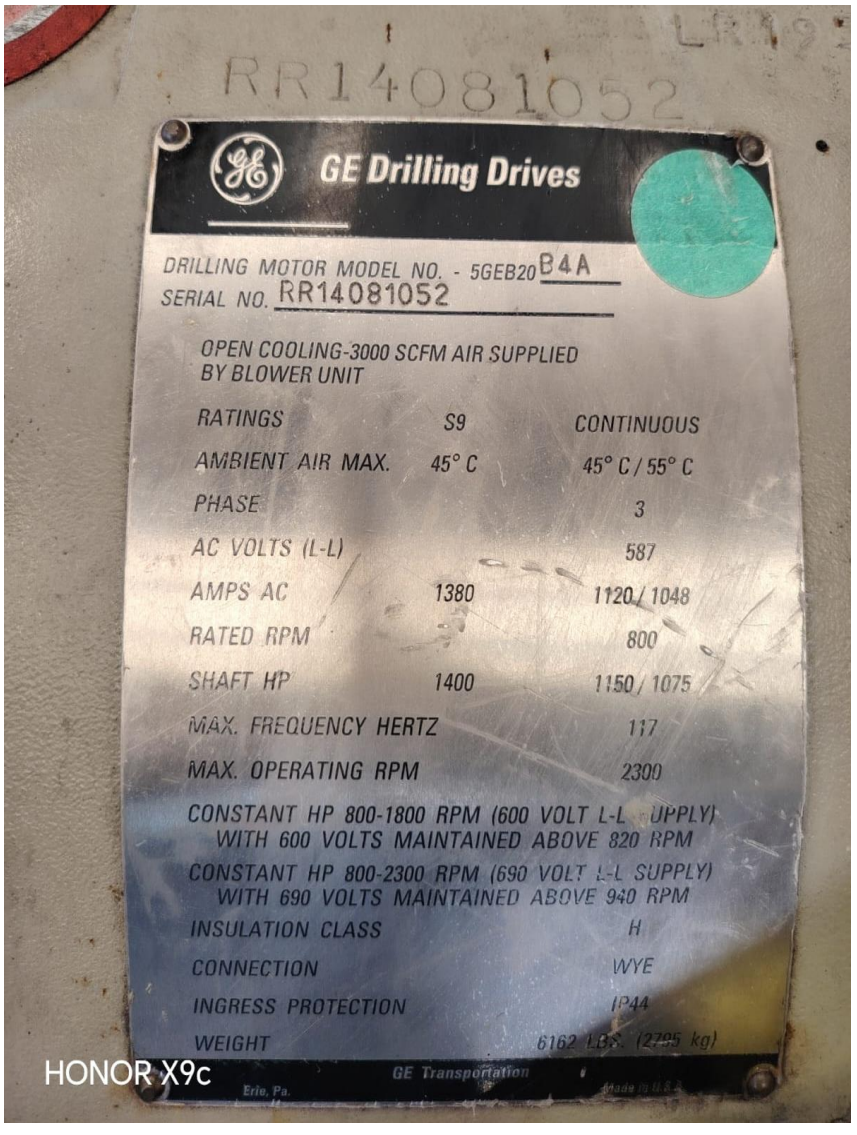
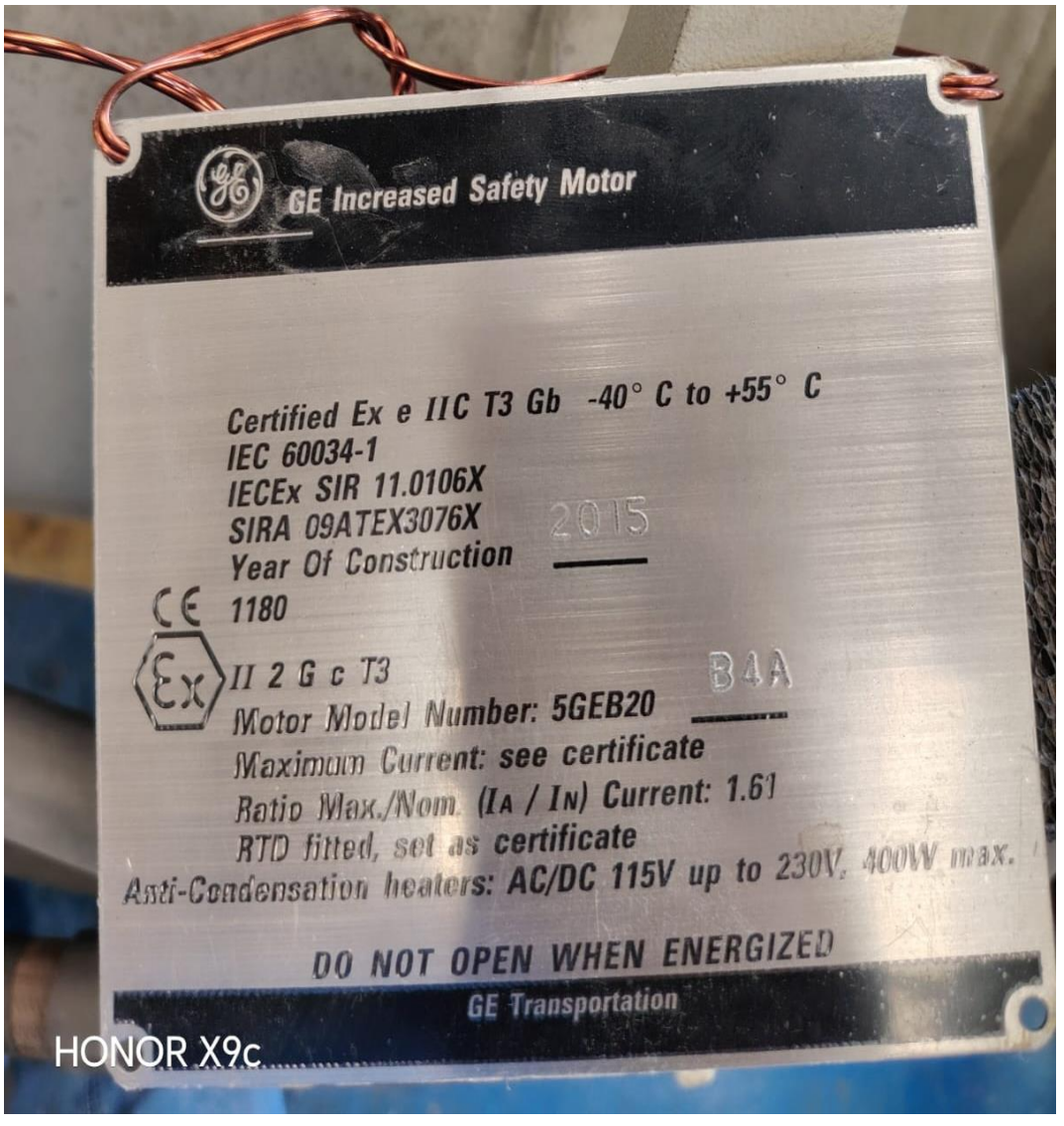
PICTURES ON INSPECTION

RECEIVED MOTOR

NAMEPLATE & OTHER DETAILS





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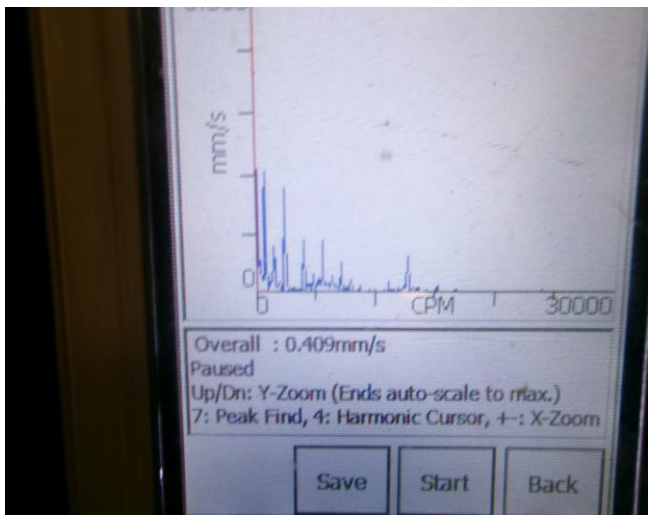
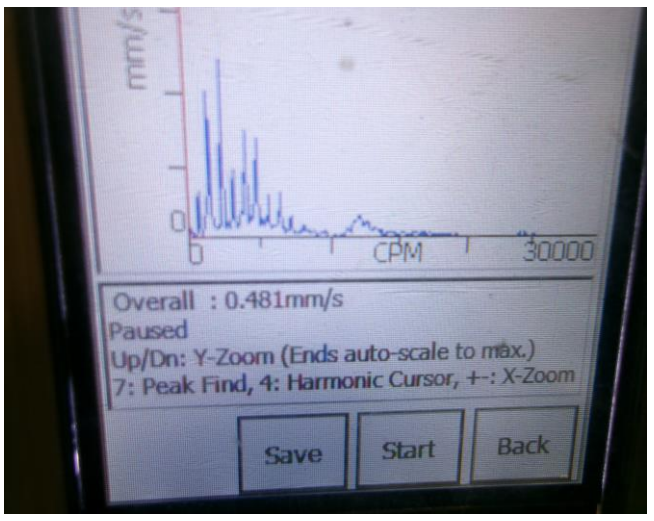
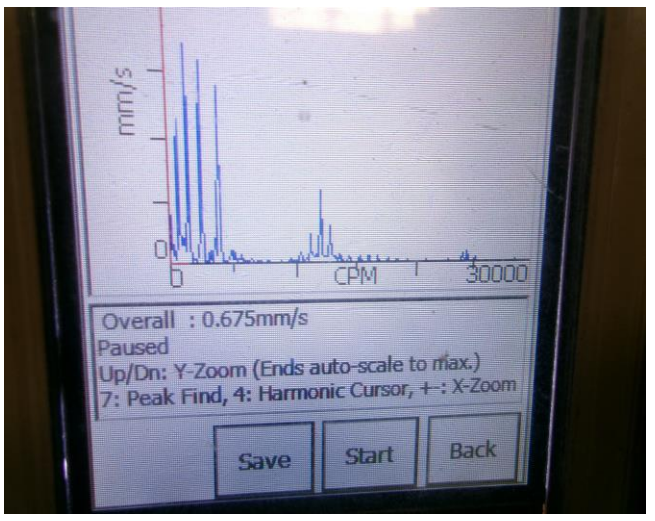
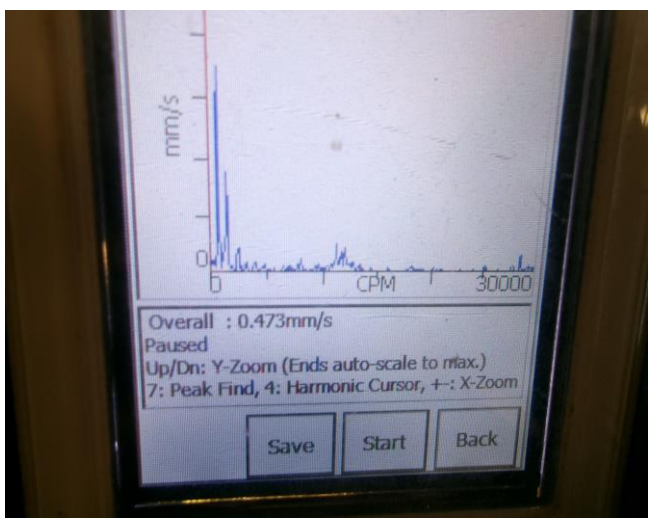
PICTURES ON INSPECTION

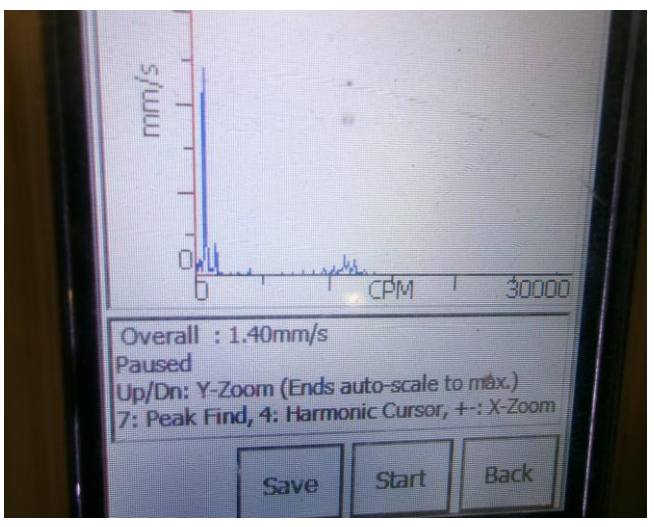
RUN TEST

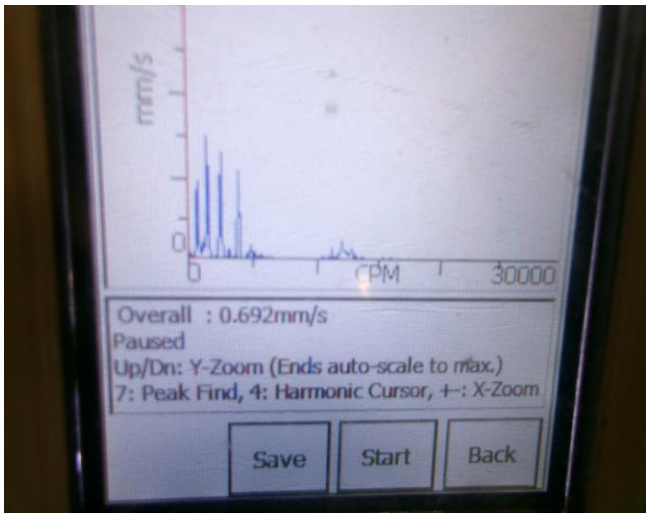












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PICTURES ON COMPLETION

RUN TEST