

EXECUTIVE SUMMARY

Exhaust fan on the MEGTEC CleanSwitch CS-600 (Job 10024557, shipped 02/2014) is exhibiting elevated vibration per technician observation during the walkdown — a leading indicator of bearing wear, impeller imbalance, or loose mounting that will progress to failure if left alone. The remainder of the unit — housing panels, stack, access platform, burner skid, ductwork, and damper bank — is structurally sound with no external defects. Priority next step is to collect vibration spectra on the fan motor and bearings and trend before the next production cycle.

PRIORITIZED ACTIONS

1

Take vibration readings on exhaust fan motor and bearing housings; capture spectra for trending.

TARGET: WITHIN 7 DAYS

 WARNING

2

Inspect fan impeller for fouling/imbalance and verify mounting bolt torque and coupling alignment.

TARGET: WITHIN 30 DAYS

 WARNING

3

Plan exhaust fan bearing replacement and rebalance during next available production window.


TARGET: NEXT PLANNED OUTAGE

 WARNING

4

Record CleanSwitch Model CS-600, Job No. 10024557, ship date 02/2014 in CMMS asset record.


TARGET: WITHIN 30 DAYS

 INFO

5

Touch up paint wear on fan motor housing to prevent corrosion initiation.

TARGET: NEXT QUARTERLY INSPECTION

 INFO

FINDINGS

01 Overall exterior view of the Dürr CleanSwitch RTO unit documented during preventive maintenance. Unit appears structurally intact with no visible abnormalities.

● GOOD



– LEGEND

1 Exhaust Stack

Stepped exhaust stack intact, no visible damage

2 Access Platform & Ladder

Caged ladder and platform in place

3 Burner Skid Piping

Gas train and piping appear intact

4 Unit Housing Panels

Side panels intact, no corrosion observed

– DISCUSSION

Overall exterior of the CleanSwitch RTO is structurally intact — stepped exhaust stack, side housing panels, caged ladder, and elevated access platform all in serviceable condition with no corrosion, panel deformation, or duct leakage visible. Burner skid piping and gas train at ground level show no obvious leaks or mechanical damage.

– RECOMMENDATION

No action required beyond routine PM documentation; retain this image as the baseline exterior reference.

02 Front-side view of Dürr CleanSwitch RTO showing exhaust fan, motor, and damper bank intact; technician reports the exhaust fan was vibrating badly, indicating a developing mechanical issue not externally visible.

● WARNING



– LEGEND

1 Vibrating Exhaust Fan Motor

Technician reports excessive vibration at fan motor

2 Fan Housing

Fan housing intact, check mounting bolts

3 Upper Damper Actuator

Tee damper actuator present and intact

4 Damper Bank Linkage

Isolation/fresh-air damper linkage appears intact

– DISCUSSION

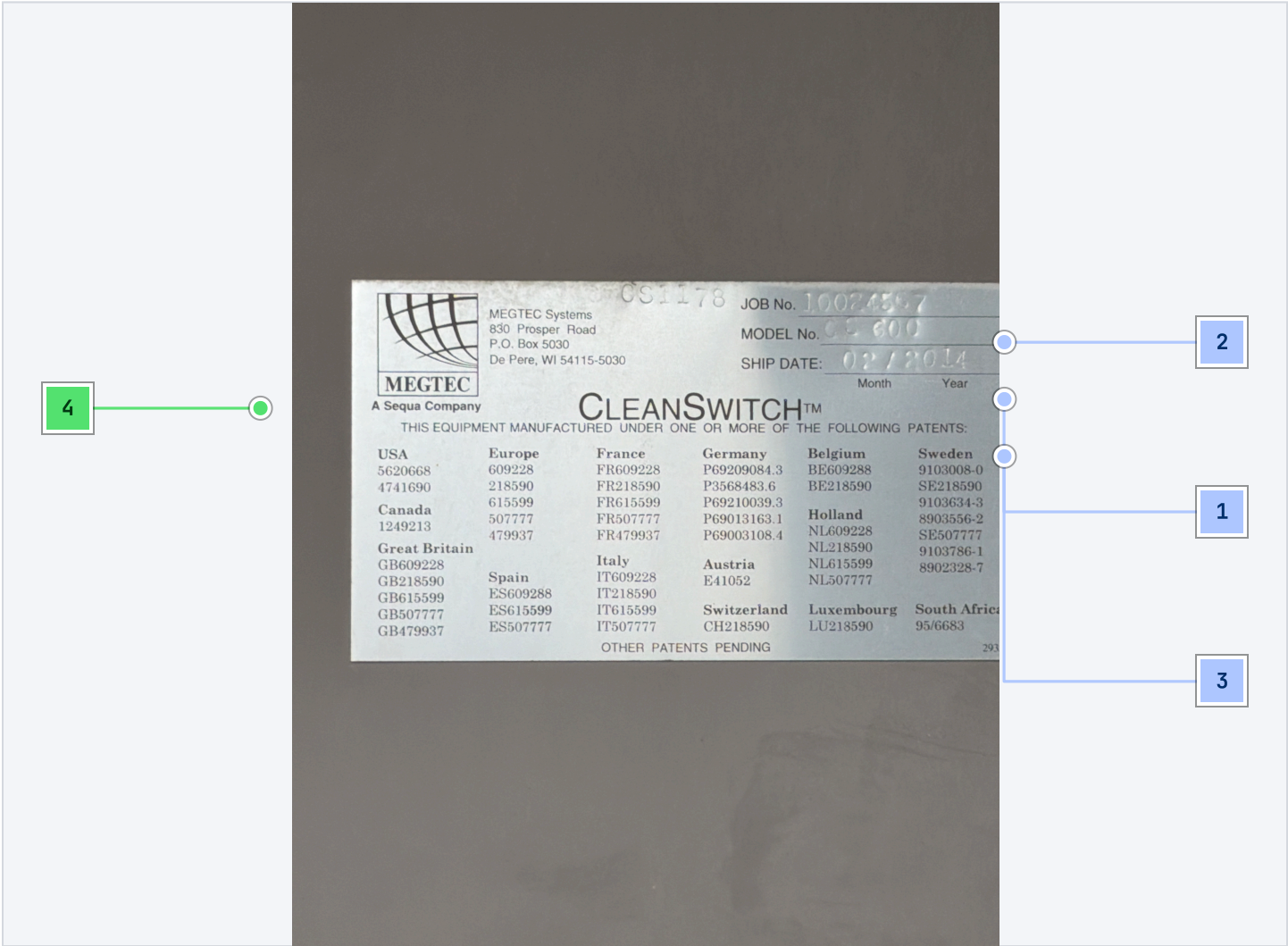
Exhaust fan motor, scroll housing, ductwork, and tee damper actuator linkages are all externally intact, but the technician reported pronounced vibration at the fan during operation. That symptom — not visible in the photo — is consistent with bearing degradation, impeller imbalance from process fouling, or loosened mounting hardware, and represents the highest-risk condition observed during this walkdown. Minor paint wear on the motor housing is cosmetic only.

– RECOMMENDATION

Collect vibration spectra on the fan motor and both bearing housings, then inspect impeller, mounting bolts, and coupling. Schedule corrective work before the condition progresses to a forced outage.

03 MEGTEC CleanSwitch nameplate captured legibly, identifying Model CS - 600 with job number and ship date 02/2014.

● INFO



CS1178 JOB No. 10024557
MEGTEC Systems
830 Prosper Road
P.O. Box 5030
De Pere, WI 54115-5030
MODEL No. CS 600
SHIP DATE: 02 / 2014
Month Year

MEGTEC
A Sequa Company

CLEANSWITCH™

THIS EQUIPMENT MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING PATENTS:

USA	Europe	France	Germany	Belgium	Sweden
5620668	609228	FR609228	P69209084.3	BE609288	9103008-0
4741690	218590	FR218590	P3568483.6	BE218590	SE218590
	615599	FR615599	P69210039.3		9103634-3
Canada	507777	FR507777	P69013163.1	Holland	8903556-2
1249213	479937	FR479937	P69003108.4	NL609228	SE507777
Great Britain		Italy	Austria	NL218590	9103786-1
GB609228		IT609228	E41052	NL615599	8902328-7
GB218590	Spain	IT218590		NL507777	
GB615599	ES609288	IT615599	Switzerland	Luxembourg	South Africa
GB507777	ES615599	IT507777	CH218590	LU218590	95/6683
GB479937	ES507777	IT507777			

OTHER PATENTS PENDING

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– LEGEND

1 Model Number

Model No. CS-600 stamped on plate

2 Job Number

Job No. 10024557 documented

3 Ship Date

Ship date 02/2014 confirms unit age

4 Manufacturer Plate

MEGTEC Systems CleanSwitch identification plate

– DISCUSSION

Nameplate is legible and undamaged, confirming the unit as a MEGTEC Systems CleanSwitch Model CS-600, Job No. 10024557, ship date 02/2014. This establishes the asset at roughly 12 years in service, which is relevant context for the developing fan vibration finding.

– RECOMMENDATION

Enter model, job number, and ship date into the equipment record and cross-reference with OEM service bulletins applicable to this vintage.