Table 3.1: A summary of publicly available maintenance work order datasets, describing size, unstructured text fields, metadata, and annotated data.

Dataset	Domain	Number of Records	Field for Work Descrip-	Examples of Fields/Metadata Included	Is the dataset	Annotation Information Examples
			tion (unstructured text)	(format and description in brackets)	annotated?	
Handyman Work Order (HWO) Charges ^a	Housing and Development	92.4K	HWODescription	ChargedAmount, HWOCreateDate, WorkTypeGeneral, HWOStatusReason	No	N/A
Initiating Events ^b	Unexpected reactor trips at commercial power plants	3,285	IPFShortDesc	EventDt (date), Abstract (long text), VENDOR, UnitMode	No	N/A
WSSC Completed Service Alert Work Orders c	County Water Department	260K	N/A	Date Received, Date Completed, WORK DESCRIPTION (text, desc: Description of Work Performed)	No	N/A
$\begin{array}{c} \text{MaintNet (Vehicle Historical} \\ \text{Maintenance Dataset)}^d \end{array}$	Automotive Maintenance	200	Notes	JobDate, JobTime, jobno (numerical), Reason (code)	No	N/A
$\begin{array}{c} {\rm MaintNet~(Aircraft~Historical} \\ {\rm Maintenance~Dataset})^e \end{array}$	Aviation Maintenance	6,169	Problem, Action	IDENT (code)	No	N/A
$\begin{array}{c} {\rm MaintNet~(Facility~Historical} \\ {\rm Maintenance~Dataset})^f \end{array}$	Facility Maintenance	200	DESCRIPTION	SITE_ID, DATE_REQUESTED, Date Completed, Problem Type (text, example: "BUILDING INTERIOR INSPECTION")	No	N/A
	heavy mobile equipment, rail, mineral processing and infrastructure industries	1,076	text	N/A	Yes	Entities include: PhysicalObject and subclasses based on inherent function, State, Process, Activity, Property Relations include: Mereological, Property, Type, Participatory
MaintIE (Coarse-Grained Large-Scale Corpus) ^h	heavy mobile equipment, rail, mineral processing and infrastructure industries	7,000	text	N/A	Yes	Entities include: PhysicalObject, State, Process, Activity, Property Relations include: Mereological, Property, Type, Participatory
Excavator Maintenance Work Orders h	Mobile Mining Equipment	5,486	OriginalShorttext	BSCStartDate, Asset (code), Cost	Yes	MajorSystem, Part, Action, Variant, FM, FunctionalLocation
Asset Management Parks System $(AMPS)^i$	Park assets	1.97M	EVT_DESC	EVT_TYPE (text, desc: work order type), EVT_DATE, EVT_SAFETY (text, desc: Indicates if the work order is safety related)	Yes	EVT_REQM (desc: problem code), EVT_PRIORITY (desc: Assigned priority of the work order), EVT_STANDWORK (text, desc:work order standard type)
${\rm MaintNorm}^j$	Industrial Maintenance (Heavy Mobile Equipment)	12,000	No field name	Normalised short text description in WNUT standard normalisation format	No	N/A

^aNYC OpenData, 2024, "Handyman Work Order (HWO) Charges", Department of Housing Preservation and Development (HPD)[Online]. Available: https://data.cityofnewyork.us/Housing-Development/Handyman-Work-Order-HWO-Charges/sbnd-xujn/about_data

^bUnited States Nuclear Regulatory Commission, 2024, "Initiating Events" [Online]. Available: https://nrcoe.inl.gov/InitEvent/

^csvc dmesb, 2023, "WSSC Completed Service Alert Work Orders", dataMontgomery [Online]. Available: https://data.montgomerycountymd.gov/Community-Recreation/WSSC-Completed-Service-Alert-Work-Orders/4tjk-62h7/about_data

^dConnecticut Open Data, 2020, "Vehicle Historical Maintenance Dataset", MaintNet [Online]. Available: https://people.rit.edu/fa3019/technical/vehicle.html

 ${\it e} {\it MaintNet, 2020, "Aircraft \ Historical \ Maintenance \ Dataset", \ MaintNet \ [Online]. \ Available: \ https://people.rit.edu/fa3019/technical/aircraft.html}$

 $f Balitmore\ City\ Maryland\ Data,\ 2020,\ "Facility\ Historical\ Maintenance\ Dataset",\ MaintNet\ [Online].\ Available:\ https://people.rit.edu/fa3019/technical/facility.html$

gT. Bikaun, T. French, M. Stewart, W. Liu, and M. Hodkiewicz, "MaintIE", UWA NLP-TLP Group [Online]. Available: https://github.com/nlp-tlp/maintie

^hM. Hodkiewicz, 2024, "Excavator Maintenance Work Orders", UWA System Health Lab [Online]. Available: https://prognosticsdl.systemhealthlab.com/dataset/excavator-maintenance-work-orders

ⁱNYC OpenData, 2024, "Asset Management Parks System (AMPS) - Work Orders", Department of Parks and Recreation (DPR)[online]. Available: https://data.cityofnewyork.us/Environment/Asset-Management-Parks-System-AMPS-Work-Orders/8sdw-8vja/about_data

^jT. Bikaun, W. Liu, and M. Hodkiewicz, "MaintNorm", UWA NLP-TLP Group [Online]. Available: https://github.com/nlp-tlp/maintnorm