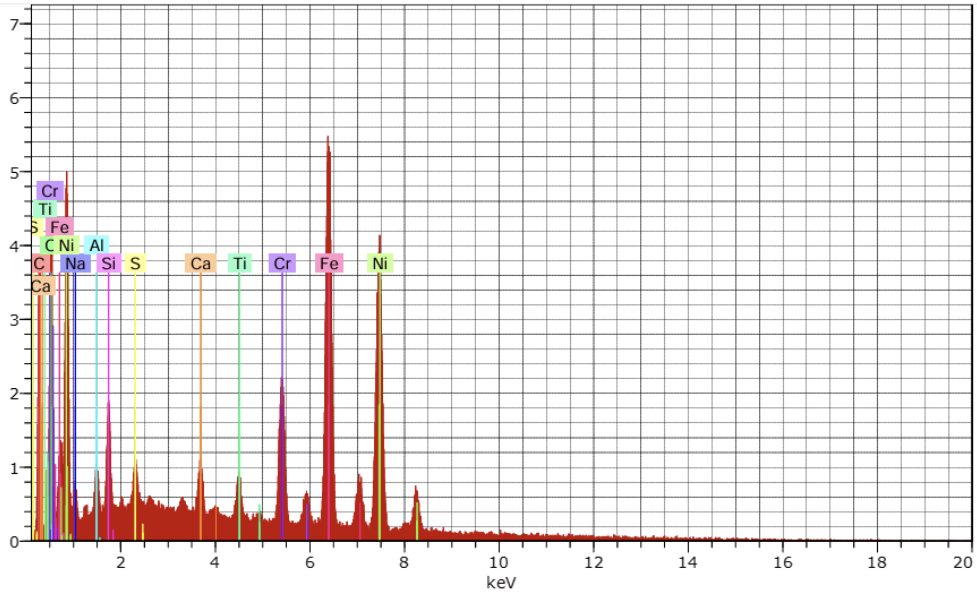
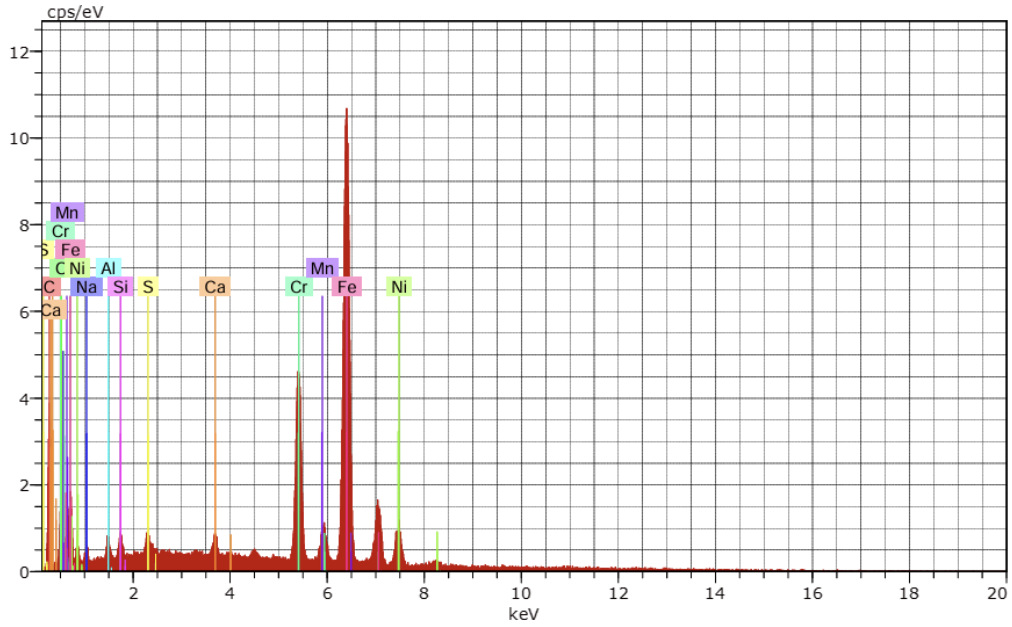


Spectrum: 1

Element	Series	unn. C [wt.%]	norm. C [wt.%]	Atom. C [at.%]	Error [wt.%]
Carbon	K-series	26.64	25.12	48.76	4.0
Oxygen	K-series	18.22	17.18	25.03	2.6
Sodium	K-series	1.79	1.68	1.71	0.2
Aluminium	K-series	0.92	0.86	0.75	0.1
Silicon	K-series	1.47	1.38	1.15	0.1
Sulfur	K-series	0.68	0.64	0.47	0.1
Calcium	K-series	1.27	1.20	0.70	0.1
Titanium	K-series	1.43	1.35	0.66	0.1
Chromium	K-series	5.60	5.28	2.37	0.2
Iron	K-series	22.57	21.28	8.88	0.6
Nickel	K-series	25.47	24.02	9.54	0.7
	Total:	106.06	100.00	100.00	

Figure S1.a EDX microanalysis of samples of Figure 4 of a fouling deposit inside a S304 steel pipe

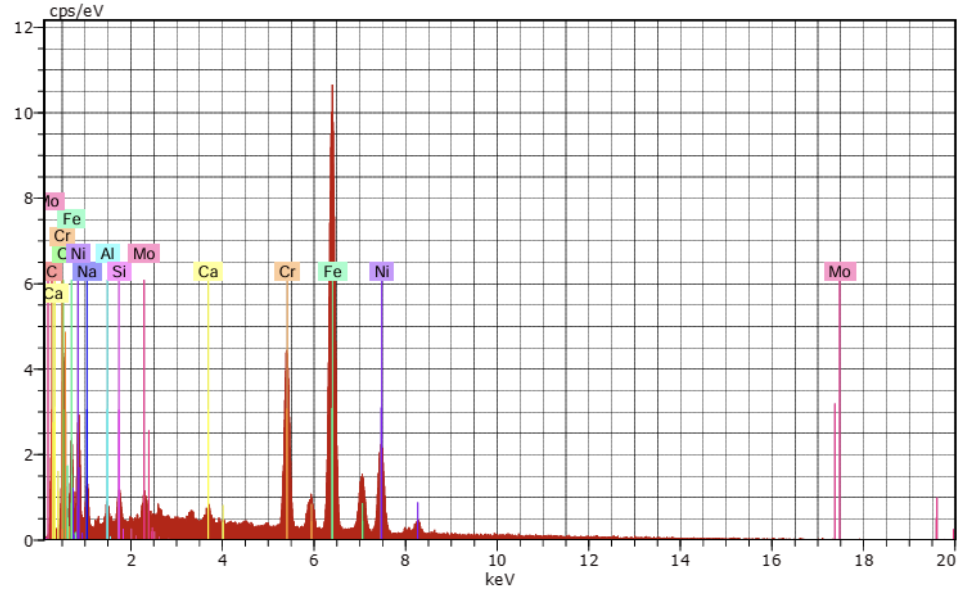
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Spectrum: 1

Element	Series	unn. C [wt.%]	norm. C [wt.%]	Atom. C [at.%]	Error [wt.%]
Carbon	K-series	26.45	24.96	54.01	3.9
Oxygen	K-series	7.84	7.40	12.02	1.3
Sodium	K-series	1.83	1.73	1.95	0.2
Aluminium	K-series	0.98	0.92	0.89	0.1
Silicon	K-series	0.79	0.74	0.69	0.1
Sulfur	K-series	0.71	0.67	0.54	0.1
Calcium	K-series	0.66	0.63	0.41	0.1
Chromium	K-series	10.53	9.94	4.97	0.3
Manganese	K-series	0.96	0.91	0.43	0.1
Iron	K-series	48.12	45.42	21.13	1.3
Nickel	K-series	7.07	6.68	2.96	0.2
	Total:	105.95	100.00	100.00	

Figure S1.b EDX microanalysis of samples of Figure 4.



Spectrum: 1

Element	Series	unn. C [wt.%]	norm. C [wt.%]	Atom. C [at.%]	Error [wt.%]
Carbon	K-series	16.60	16.79	38.73	2.6
Oxygen	K-series	12.90	13.04	22.59	1.9
Sodium	K-series	4.34	4.39	5.29	0.3
Aluminium	K-series	0.90	0.91	0.94	0.1
Silicon	K-series	0.93	0.94	0.93	0.1
Calcium	K-series	0.52	0.52	0.36	0.0
Chromium	K-series	9.58	9.69	5.17	0.3
Iron	K-series	39.03	39.46	19.58	1.1
Nickel	K-series	12.41	12.55	5.92	0.4
Molybdenum	L-series	1.70	1.72	0.50	0.1
	Total:	98.90	100.00	100.00	

Figure S1.c EDX microanalysis of samples of Figure 4. Figures S1,S2,and S3 are of three different points