



CCR. 12.4 - LIST OF VESSEL'S MEASURING INSTRUMENTS

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Made by	: QHSE
Approved by	: MD
Rev. No	: 0

Instruments	Manufacturer	Type & Model	Serial nr	Condition	Certificate issued	Certificate expiring	Date of onboard calibration / checks
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PORTABLE MULTIGAS MONITORS

Altair 5X	MSA	Altair 5X	06007526	Good	25.01.2018	24.01.2019	30.10.2018
Altair 5X	MSA	N/A	N/A	N/A	N/A	N/A	N/A

PORTABLE MULTIGAS MONITORS

Altair 5X (IR)	MSA	Altair 5X (IR)	06003378	Good	25.09.2018	24.09.2019	30.10.2018
Altair 5X (IR)	MSA	N/A	N/A	N/A	N/A	N/A	N/A

PERSONAL MULTIGAS MONITORS

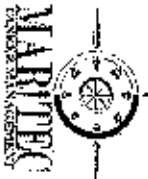
Altair 4X	MSA	Altair 4XR	S/N 00006391	Good	30.01.2018	28.01.2019	30.10.2018
Altair 4X	MSA	Altair 4X	06012324	Good	14.02.2018	13.02.2019	30.10.2018
Altair 4X	MSA	Altair 4X	06013171	Good	20.04.2018	19.04.2019	30.10.2018
Altair 4X	MSA	Altair 4X	00160257	Good	25.09.2018	24.09.2019	30.10.2018

DRAGER PUMPS

Gas detector pump	DRAGER	ACCURO	ARLB-F001	GOOD	N/A	N/A	GOOD
Gas detector pump	DRAGER	ACCURO	ARLF-F001	GOOD	N/A	N/A	GOOD

PORTABLE ALCOMETER

Alcolast	SOCIAC	SC-103	57K04099	Good	21.09.2018	20.09.2019	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A



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SPAN GASES

GAS SPECIFICATION	Company	Serial nr	Quantity	Bottles	Total	Expiry Date
Isobutane 50% lel, balance air	MARTEK, FAST CALGAZ	FCG 23000	N/A	3	N/A	01/10/2021
Isobutane 50% lel, balance air	GASCO	17L-18A-0.9	N/A	3	N/A	01/04/2020
Isobutane 50% lel, balance air	GASCO	34LS-18A-0.9	N/A	3	N/A	01/05/2020
Isobutane 50% lel, balance air	GASCO	103L-18A-0.9	N/A	5	N/A	01/05/2020
Isobutane 50% lel, balance air	GASCO	103L-18A-0.9	N/A	1	N/A	01/08/2019
Isobutylene 10 ppm balance air	MARTEK, FAST CALGAZ	FCG 34002	N/A	2	N/A	01/08/2022
Isobutylene 10 ppm balance air	MARTEK, FAST CALGAZ	FCG 34002	N/A	2	N/A	01/10/2021
N ₂ 99.99% Vol	MARTEK, FAST CAL GAS	FCG 28010	N/A	2	N/A	01/08/2022
Multigas (co 500 ppm, h2s 50 ppm, ch4 2.2% vol, o2 18%) nitrogen balance	MARTEK, FAST CALGAZ	FCG 21222	N/A	2	N/A	01/08/2019
Isobutane 10% vol, balance n2	GASCO	17L-17N-8	N/A	1	N/A	01/05/2020
Isobutane 10% vol, balance n2	GASCO	17L-17N-8	N/A	2	N/A	01/04/2020
Isobutane 10% vol, balance n2	GASCO	81-0019RK-RKS	N/A	2	N/A	01/03/2020



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Q2 10% vol balance n2	CALGAZ	81-0076RK-01RKS	N/A	2	N/A	01/02/2020	N/A