

# Thermo Fisher Scientific

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## VALIDATION REPORT

### Validation Report

**Customer :** HONDA OF SOUTH CAROLINA / US

**Instrument Nr. :** ARL 3460 - 6788

**Computer Nr. :** 19011 - 18253

**Grating :** 1080

**Base(s) :** Al

**Lines :** 13

**Place & Date :**

Ecublens, the 05 March 2015

**Quality assurance performed by :**

Edgar Vicente

Base : Al

Quality : ALCOSICU

Element : Cr      Number of samples : 5

Sample name	Certif %	Measure %	Difference
ALCAN 125CAP	0.00100	0.00221	0.00121
ALUSUI 473/02	0.01300	0.01355	0.00055
ALCOA KF380BB	0.02700	0.02565	-0.00135
PECH 9540	0.06100	0.05888	-0.00212
PECH 9533	0.15000	0.14729	-0.00271

Element : Cu      Number of samples : 7

Sample name	Certif %	Measure %	Difference
ALUSUI 475/01	0.59000	0.58868	-0.00132
ALUSUI 473/02	0.96000	0.95164	-0.00836
PECH 1198	0.97000	0.95438	-0.01562
PECH 1199	2.03000	2.01085	-0.01915
ALCOA KF380BB	2.57000	2.63000	0.06000
PECH 9540	3.91000	3.83484	-0.07516
PECH 9533	4.92000	4.89292	-0.02708

Element : Fe      Number of samples : 8

Sample name	Certif %	Measure %	Difference
PECH 1199	0.06500	0.06664	0.00163
PECH 9533	0.15100	0.15745	0.00645
ALUSUI 473/02	0.19400	0.19477	0.00077
MBH G28J6A	0.26000	0.25557	-0.00443
PECH 9907	0.43300	0.43315	0.00015
PECH 9540	0.50000	0.51524	0.01524
ALCOA KF380BB	0.71000	0.72370	0.01370
PECH 9536	1.23800	1.23956	0.00156

Element : Mg      Number of samples : 8

Sample name	Certif %	Measure %	Difference
PECH 1198	0.02200	0.01815	-0.00385

Element : Mg      Samples : 2 - 8

Sample name	Certif %	Measure %	Difference
PECH 9533	0.03700	0.03892	0.00192
PECH 9536	0.12900	0.13080	0.00180
PECH 1199	0.14900	0.15543	0.00643
ALCOA KF380BB	0.30000	0.28264	-0.01736
PECH 9907	0.35200	0.36077	0.00877
PECH 9540	0.55300	0.54239	-0.01061
ALUSUI 473/02	1.08000	1.11188	0.03188

Element : Mn      Number of samples : 8

Sample name	Certif %	Measure %	Difference
ALCAN 125CAP	0.00040	0.00032	-0.00008
PECH 9536	0.03900	0.03927	0.00027
ALUSUI 473/02	0.06200	0.06334	0.00134
PECH 9907	0.15100	0.15781	0.00681
PECH 9540	0.38500	0.39879	0.01379
ALCOA KF380BB	0.45000	0.44690	-0.00310
PECH 1199	0.56400	0.56207	-0.00193
PECH 9533	0.69300	0.69963	0.00663

Element : Na      Number of samples : 3

Sample name	Certif %	Measure %	Difference
MBH G28J6A	0.00004	0.00006	0.00002
PECH 1791-2	0.00500	0.00473	-0.00027
ALUSUI 434/02	0.00880	0.00868	-0.00012

Element : Ni      Number of samples : 8

Sample name	Certif %	Measure %	Difference
PECH 1199	0.00080	0.00087	0.00007
PECH 9533	0.02400	0.02546	0.00146
PECH 1198	0.03100	0.03010	-0.00090
ALCOA KF380BB	0.11400	0.11380	-0.00020
PECH 9536	0.13700	0.13544	-0.00156
PECH 9540	0.59780	0.59648	-0.00132

Element : Ni      Samples : 7 - 8

Sample name	Certif %	Measure %	Difference
ALUSUI 473/02	1.20000	1.15633	-0.04367
ALUSUI 475/01	2.21000	2.19486	-0.01514

Element : Pb      Number of samples : 7

Sample name	Certif %	Measure %	Difference
PECH 1198	0.00100	0.00041	-0.00059
PECH 9533	0.01300	0.01332	0.00032
PECH 1199	0.03000	0.02675	-0.00325
ALCOA KF380BB	0.09900	0.10221	0.00321
PECH 9536	0.13300	0.12512	-0.00788
PECH 9907	0.19600	0.18903	-0.00697
PECH 9540	0.28500	0.28846	0.00346

Element : Si      Number of samples : 9

Sample name	Certif %	Measure %	Difference
PECH 1199	5.18000	5.11886	-0.06114
PECH 9533	5.88000	5.89417	0.01417
PECH 1198	6.57000	6.56457	-0.00543
PECH 9540	8.23000	8.26992	0.03992
ALCOA KF380BB	8.37000	8.42018	0.05018
PECH 9536	11.91000	11.80969	-0.10031
ALUSUI 473/02	19.60000	19.90314	0.30314
ALUSUI 475/01	23.00000	22.77600	-0.22400
MBH G28J6A	27.15000	27.21265	0.06265

Element : Sn      Number of samples : 6

Sample name	Certif %	Measure %	Difference
PECH 9540	0.01200	0.01363	0.00163
PECH 9536	0.07500	0.06913	-0.00587
PECH 9907	0.09900	0.09802	-0.00098
ALCOA KF380BB	0.15400	0.15440	0.00040
ALUSUI 473/02	0.29000	0.28332	-0.00668
PECH 9533	0.34700	0.34590	-0.00110

Element : Ti      Number of samples : 8

Sample name	Certif %	Measure %	Difference
ALCAN 125CAP	0.00100	0.00106	0.00006
PECH 9536	0.01700	0.01750	0.00050
PECH 1198	0.03000	0.03140	0.00140
ALUSUI 473/02	0.05900	0.05871	-0.00029
PECH 1199	0.06800	0.06755	-0.00045
ALCOA KF380BB	0.11400	0.11397	-0.00003
PECH 9533	0.18900	0.18240	-0.00660
PECH 9907	0.20100	0.20947	0.00847

Element : Zn      Number of samples : 8

Sample name	Certif %	Measure %	Difference
ALCAN 125CAP	0.00060	0.00067	0.00007
PECH 1199	0.02100	0.01917	-0.00183
PECH 9536	0.04900	0.04579	-0.00321
MBH G28J6A	0.05200	0.04928	-0.00272
PECH 9907	0.32300	0.31362	-0.00938
PECH 9533	0.68300	0.65593	-0.02707
PECH 9540	1.21900	1.21437	-0.00463
ALCOA KF380BB	3.56000	3.58085	0.02085

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