

## Certificate Nº 2880-043-23103a

<b>Manufacturer</b> Luxfer Gas Cylinders	<b>Manufacturer's Mark</b> 
<b>Address</b> Building 3, 3016 Kansas Avenue Riverside, California 92507	
<b>Country</b> USA	



<b>Regulation[s]:</b> PED 2014/68/EU	<b>Applied Module[s]:</b> B + F
<b>Design Specification:</b> EN 12245	

<b>Inspection Body [Xa]:</b>	Arrowhead Industrial Services (EU), Lda		
<b>Address:</b>	Aveiro Business Center. Rua da Igreja 79, N. Sra. De Fátima, 3810-744 Aveiro. Portugal		
<b>Identification Number:</b>	2880	<b>Inspector's Mark</b>	
<b>Type Approval Nº:</b>	07 202 1410 Z 0248/15/D/0060		
<b>Cylinder Type:</b>	L19C		
<b>Drawing Nº:</b>			
<b>Manufacturing Serial Nº:</b>	<b>From:</b>	OY720270	<b>To:</b> OY720357
	<b>Excluding:</b>	OY720280,OY720281	
<b>Total Tested:</b>	88	<b>Total Accepted:</b>	86

<b>Customer</b> MATISEC
<b>Address</b> RUE BLAISE PASCAL VAULX-MILIEU, 38090
<b>Country</b> FRANCE


The undersigned hereby declare that the Conformity Assessment Requirements of the above referenced Regulations have been carried out satisfactorily and that the cylinders accepted conform to the Design Specification. Test reports are supplied separately.

### General Remarks:

<b>Date of Inspection:</b> May 2023	<b>Signature</b>  
<b>Inspector:</b> Ed Prosser	

<b>Approved by:</b> Beatriz Campos Certifying Inspector Arrowhead Industrial Services EU		<b>Signature</b>   	Digitally signed by Beatriz Campos DN: cn=Beatriz Campos, ou=Arrowhead Industrial Services EU, email=certificates@arrowheadis.com, c=PT Date: 2023.06.26 10:28:23 +01'00'
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## Certificate Nº 1266-043-23103b

<b>Manufacturer</b>	Luxfer Gas Cylinders	<b>Manufacturer's Mark</b>
<b>Address</b>	Building 3, 3016 Kansas Avenue Riverside, California 92507	
<b>Country</b>	USA	

<b>Regulation[s]:</b>	PESR 2016	<b>Applied Module[s]:</b>	B + F
<b>Design Specification:</b>	EN 12245:2009 + A1:2011		

<b>Inspection Body [Xa]:</b>	Arrowhead Industrial Services Ltd		
<b>Address:</b>	Orion House, Barn Hill, Stamford, Lincolnshire, PE9 2AE, UK		
<b>Identification Number:</b>	1266	<b>Inspector's Mark</b>	
<b>Type Approval Nº:</b>	1266-043-2228		
<b>Cylinder Type:</b>	Refillable fully wrapped carbon fibre composite gas cylinders		
<b>Drawing Nº:</b>	L19C		
<b>Manufacturing Serial Nº:</b>	<b>From:</b> OY720270	<b>To:</b> OY720357	
	<b>Excluding:</b> OY720280,OY720281		
<b>Total Tested:</b>	88	<b>Total Accepted:</b>	86

<b>Customer</b>	MATISEC
<b>Address</b>	RUE BLAISE PASCAL VAULX-MILIEU,38090
<b>Country</b>	FRANCE

The undersigned hereby declare that the Conformity Assessment Requirements of the above referenced Regulations have been carried out satisfactorily and that the cylinders accepted conform to the Design Specification. Test reports are supplied separately.

### General Remarks:

<b>Date of Inspection:</b>	May 2023	<b>Signature</b>
<b>Inspector:</b>	Ed Prosser	

<b>Approved by:</b>		<b>Signature</b>	
Simon Davies			
Certifying Inspector			
Arrowhead Industrial Services Ltd			
			Digitally signed by Simon Davies DN: cn=Simon Davies, ou=Arrowhead Industrial Services, email=certificates@arrowheadis.c om, c=GB Date: 2023.06.26 10:28:48 +01'00'

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ARROWHEAD INDUSTRIAL SERVICES USA, INC.  
RIVERSIDE, CALIFORNIA

REPORT OF MANUFACTURE OF FRP SEAMLESS ALUMINUM-LINED CYLINDERS  
RECORD OF CHEMICAL ANALYSIS

MANUFACTURED BY: LUXFER COMPOSITE CYLINDERS DIVISION  
FOR: LUX. EUROPE  
BILLET SIZE: 15.0000  
NUMBERED OY720270 to OY720357 inclusive.

Reporting Date: 23 Jun 2023  
Symbol: LUXFER  
ALUMINUM ALLOY 6061

MILL HEAT CODE*	HEAT NO.	CHECK ANALYSIS NUMBER	CU	SI	FE	MN	MG	ZN	TI	GA	NI	PB	SN	BI	V	CR
TY4 (L) 883503		**TY4	0.23	0.71	0.46	0.11	0.93	0.02	0.03		0.003	0.0007		0.0002		0.18
VC5 (L) 887090		**VC5	0.23	0.68	0.47	0.10	0.98	0.01	0.03		0.007	0.0006		0.0001		0.17
VG8 (L) 898219		**VG8	0.27	0.71	0.47	0.11	0.98	0.01	0.03		0.006	0.0001		0.0001		0.18

ALUMINUM WAS MANUFACTURED AND MILL ANALYSIS MADE BY:  
(L) ALCOA MILL PRODUCTS, LANCASTER, PA., USA

THE ORIGINALS OF CERTIFIED MILL ANALYSIS REPORTS ARE IN THE FILES OF THE MANUFACTURERS.

\* APPLICABLE CODES ARE STAMPED INTO EACH CYLINDER

SIGNATURE 

REPORT OF MANUFACTURE OF FRP SEAMLESS ALUMINUM-LINED CYLINDERS  
RECORD OF PHYSICAL TESTS OF MATERIAL FOR CYLINDER LINERS

Reporting Date: 23 Jun 2023

NUMBERED OY720270 to OY720357 inclusive.

Test Specimen: 25mm x 5.65 x Ao 1/2

BATCH	CODE	CYLINDER REPRESENTED		TEST PIECE			YIELD STRENGTH	TENSILE	ELONGATION	
		BY TEST		DIMENSIONS		AT .2 PERCENT	STRENGTH			
		(SERIAL NUMBERS)					OFFSET (N/mm2)	(N/mm2)	(PERCENT)	
33989	TY4	OY720273	THRU	2.240t	x	12.830w	311.0	373.0	16.5	
33996	TY4	OY720275		2.210t	x	12.500w	305.0	368.0	16.6	
		OY720272	THRU	2.210t	x	12.470w	318.0	375.0	18.0	
		OY720272		2.160t	x	12.650w	318.0	379.0	17.6	
34898	VC5	OY720270	THRU	2.210t	x	12.420w	325.0	377.0	15.9	
35047	VG8	OY720271		2.180t	x	12.470w	306.0	367.0	16.3	
		OY720277	THRU	2.260t	x	12.650w	308.0	354.0	16.6	
		OY720278		2.180t	x	12.500w	314.0	364.0	17.7	
		OY720284	THRU							
		OY720284								
		OY720291	THRU							
		OY720291								
		OY720295	THRU							
		OY720296								
		OY720298	THRU							
		OY720298								
		OY720306	THRU							
		OY720306								
		OY720310	THRU							
		OY720310								
		OY720317	THRU							
		OY720317								
		OY720322	THRU							
		OY720322								
		OY720331	THRU							
		OY720331								
		OY720336	THRU							
		OY720336								
		OY720340	THRU							
		OY720340								
		OY720347	THRU							
OY720347										
OY720352	THRU									
OY720352										
35048	VG8	OY720276	THRU	2.290t	x	12.500w	310.0	360.0	15.7	
		OY720276		2.240t	x	12.500w	291.0	365.0	17.3	
		OY720279	THRU							
		OY720283								
		OY720285	THRU							
		OY720290								
		OY720292	THRU							
		OY720294								
		OY720297	THRU							
		OY720297								
		OY720299	THRU							
		OY720305								
		OY720307	THRU							
		OY720309								
		OY720311	THRU							
		OY720316								
		OY720318	THRU							
		OY720321								
		OY720323	THRU							
		OY720330								
		OY720332	THRU							
		OY720335								
		OY720337	THRU							
		OY720339								
		OY720341	THRU							
		OY720346								
OY720348	THRU									
OY720351										

FOR AND ON BEHALF OF THE MANUFACTURER

FOR AND ON BEHALF OF THE VERIFICATION BODY

ARROWHEAD INDUSTRIAL SERVICES USA, INC.  
RIVERSIDE, CALIFORNIA

REPORT OF MANUFACTURE OF FRP SEAMLESS ALUMINUM-LINED CYLINDERS  
RECORD OF PHYSICAL TESTS OF MATERIAL FOR CYLINDER LINERS

MANUFACTURED BY: LUXFER COMPOSITE CYLINDERS DIVISION  
FOR: LUX. EUROPE

Reporting Date: 23 Jun 2023

NUMBERED OY720270 to OY720357 inclusive.

Test Specimen: 25mm x 5.65 x Ao 1/2

BATCH	CODE	CYLINDER REPRESENTED BY TEST (SERIAL NUMBERS)	TEST PIECE DIMENSIONS	YIELD STRENGTH AT .2 PERCENT OFFSET (N/mm2)	TENSILE STRENGTH (N/mm2)	ELONGATION (PERCENT)
		OY720353 THRU OY720353				
35295	VG8	OY720356 THRU OY720356	2.240t x 12.500w	319.0	369.0	17.9
			2.290t x 12.620w	319.0	366.0	16.6
35297	VG8	OY720354 THRU OY720355	2.260t x 12.600w	316.0	364.0	15.8
		OY720357 THRU OY720357	2.240t x 12.600w	288.0	370.0	18.9

FOR AND ON BEHALF OF THE MANUFACTURER



FOR AND ON BEHALF OF THE VERIFICATION BODY



ARROWHEAD INDUSTRIAL SERVICES USA, INC.  
RIVERSIDE, CALIFORNIA

REPORT OF MANUFACTURE OF FRP SEAMLESS ALUMINUM-LINED CYLINDERS  
RECORD OF COMPOSITE ANALYSIS

MANUFACTURED BY: LUXFER COMPOSITE CYLINDERS DIVISION  
FOR: LUX. EUROPE

Reporting Date: 23 Jun 2023  
Symbol: LUXFER

NUMBERED OY720270 to OY720357 inclusive.

Filament designation and specification: \* S-2 449AA-750  
\*\* T700SC-12K

Filament manufactured by: \* AGY LLC, CHARLOTTE, NC  
\*\* TORAY CARBON FIBERS AMERICA, INC MADE IN USA

MANUFACTURING LOT NUMBER	NUMBER TENSILE STRENGTH	INTERLAMINAR SHEAR
In House Number: 356 * SE75062722 OY720270/OY720357	550115 PSI	6132 PSI after 4 hours water boil
In House Number: CF541 ** A3122M1 OY720270/OY720357	634687 PSI	6016 PSI

RESIN SYSTEMS COMPONENTS AND MANUFACTURING LOT NUMBERS

Resin designation: BISPHENOL A

Resin manufactured by: MOMENTIVE, HOUSTON, TX

RESIN		CURING AGENT		AIR RELEASE	
TYPE	LOT NUMBER	TYPE	LOT NUMBER	TYPE	LOT NUMBER
EPON 826	DP23D1023 OY720270/OY720357	T-403	23D103 OY720270/OY720357		2472813 OY720270/OY720357

SIGNATURE



ARROWHEAD INDUSTRIAL SERVICES USA, INC.  
RIVERSIDE, CALIFORNIA

REPORT OF MANUFACTURE OF FRP SEAMLESS ALUMINUM-LINED CYLINDERS


MANUFACTURED BY: LUXFER COMPOSITE CYLINDERS DIVISION  
FOR: LUX. EUROPE

Reporting Date: 23 Jun 2023  
Symbol: LUXFER

NUMBERED OY720270 to OY720357 inclusive.

CYCLE TEST S/N OY720280 Lot # OY500  
Cylinder Weight 1.41 kgs  
Pressurization Range approx. 0 to 5525 PSIG  
Number of cycles applied 15010  
Pressurization Range approx. 0 to 0 PSIG  
Number of cycles applied 0  
Pressurization rate 7 cycles a minute  
Achieved burst pressure after cycling: 0 PSIG

VIRGIN BURST TEST  
SERIAL\_NUMBER OY720281  
CYLINDER WEIGHT 1.39 kgs  
BURST PRESSURE 18000 PSIG

SIGNATURE 

ARROWHEAD INDUSTRIAL SERVICES USA, INC.  
RIVERSIDE, CALIFORNIA

REPORT OF MANUFACTURE OF FRP SEAMLESS ALUMINUM-LINED CYLINDERS  
WEIGHT AND HYDROSTATIC TEST DATA FOR FRP COMPRESSED GAS CYLINDERS

MANUFACTURED BY: LUXFER COMPOSITE CYLINDERS DIVISION  
FOR: LUX. EUROPE

TEST DATES: a = 01 Jun 2023  
b = 31 May 2023  
c = 04 Jun 2023

LOT NO: OY500  
P/N: LUXFER L19C  
LUX. EUROPE L19C

TYPE: C

NUMBERED OY720270 to OY720357 inclusive.

ALL CYLINDERS WEIGHED WITHOUT VALVE AND PAINT  
\*\*CYLINDER PREVIOUSLY EXPOSED TO AUTOFRETTAGE  
\* RETESTED AT: 457 BAR

AUTOFRETTAGE PRESSURE: 570 BAR  
HYDROSTATIC TEST PRESSURE: 450 BAR

Heat Treat Insp Lot #	Mat. Code	Serial No.	MASS, kg				Volume Liters	AUTOFRETTAGE ml		HYDROSTATIC ml			RATIO  Perm/ Total (percent)
			Liner	Comp.	Empty	Full		Total Exp.	Perm Exp.	Total Exp.	Perm Exp.	Elas. Exp.	
34898	VC5	OY720270	0.81	0.58	1.39	3.43	2.05	45	13	25.0	0.2	24.8	0.8 a
34898	VC5	OY720271	0.81	0.56	1.37	3.43	2.06	45	13	24.8	0.1	24.7	0.4 a
33996	TY4	OY720272	0.81	0.57	1.38	3.45	2.07	46	14	25.3	0.3	25.0	1.2 a
33989	TY4	OY720273	0.81	0.59	1.40	3.47	2.07	47	15	25.6	0.8	24.8	3.1 a
33989	TY4	OY720274	0.81	0.57	1.38	3.45	2.07	46	14	24.6	0.0	24.6	0.0 a
33989	TY4	OY720275	0.81	0.58	1.39	3.44	2.06	46	13	24.8	0.1	24.7	0.4 a
35048	VG8	OY720276	0.82	0.56	1.38	3.45	2.08	46	14	24.8	0.1	24.7	0.4 a
35047	VG8	OY720277	0.82	0.59	1.41	3.47	2.06	47	14	25.1	0.4	24.7	1.6 a
35047	VG8	OY720278	0.82	0.59	1.40	3.47	2.07	46	14	24.7	0.0	24.7	0.0 a
35048	VG8	OY720279	0.82	0.58	1.40	3.46	2.06	46	14	24.8	0.1	24.7	0.4 a
35048	VG8	OY720280	0.82	0.59	1.41	3.42	2.02	46	16	24.7	0.4	24.3	1.6 b
35048	VG8	OY720281	0.82	0.58	1.39	3.40	2.01	47	17	24.7	0.6	24.1	2.4 b
35048	VG8	OY720282	0.82	0.59	1.41	3.47	2.07	49	16	25.0	0.1	24.9	0.4 a
35048	VG8	OY720283	0.82	0.58	1.40	3.47	2.08	46	14	24.8	0.3	24.5	1.2 a
35047	VG8	OY720284	0.82	0.58	1.40	3.46	2.07	47	14	24.9	0.3	24.6	1.2 a
35048	VG8	OY720285	0.82	0.59	1.40	3.47	2.07	48	16	24.8	0.0	24.8	0.0 a
35048	VG8	OY720286	0.82	0.58	1.40	3.45	2.05	48	15	24.7	0.0	24.7	0.0 a
35048	VG8	OY720287	0.82	0.59	1.41	3.47	2.07	48	15	25.2	0.2	25.0	0.8 a
35048	VG8	OY720288	0.82	0.57	1.39	3.46	2.07	49	16	24.9	0.1	24.8	0.4 a
35048	VG8	OY720289	0.82	0.58	1.40	3.45	2.06	47	14	24.8	0.0	24.8	0.0 a
35048	VG8	OY720290	0.82	0.59	1.41	3.47	2.06	48	15	24.7	0.1	24.6	0.4 a
35047	VG8	OY720291	0.82	0.57	1.39	3.46	2.07	46	14	24.8	0.2	24.6	0.8 a
35048	VG8	OY720292	0.82	0.59	1.41	3.47	2.06	48	15	25.1	0.1	25.0	0.4 a
35048	VG8	OY720293	0.82	0.58	1.39	3.44	2.05	48	15	24.8	0.1	24.7	0.4 a
35048	VG8	OY720294	0.82	0.58	1.39	3.45	2.06	48	15	25.1	0.3	24.8	1.2 a
35047	VG8	OY720295	0.82	0.59	1.40	3.46	2.06	47	15	24.7	0.0	24.7	0.0 a
35047	VG8	OY720296	0.82	0.59	1.41	3.47	2.06	48	12	25.1	0.4	24.7	1.6 c
35048	VG8	OY720297	0.82	0.59	1.41	3.47	2.06	48	15	25.2	0.3	24.9	1.2 a
35047	VG8	OY720298	0.82	0.58	1.39	3.44	2.05	47	14	24.8	0.0	24.8	0.0 a
35048	VG8	OY720299	0.82	0.58	1.40	3.46	2.06	48	15	25.1	0.2	24.9	0.8 a
35048	VG8	OY720300	0.82	0.58	1.39	3.45	2.06	48	15	25.0	0.1	24.9	0.4 a
35048	VG8	OY720301	0.82	0.58	1.39	3.44	2.05	47	15	24.9	0.3	24.6	1.2 a
35048	VG8	OY720302	0.82	0.56	1.38	3.44	2.07	48	15	25.1	0.2	24.9	0.8 a
35048	VG8	OY720303	0.82	0.58	1.39	3.47	2.08	49	16	24.9	0.0	24.9	0.0 a
35048	VG8	OY720304	0.82	0.59	1.40	3.47	2.08	50	16	25.3	0.3	25.0	1.2 a
35048	VG8	OY720305	0.82	0.57	1.39	3.45	2.06	46	14	25.0	0.1	24.9	0.4 a
35047	VG8	OY720306	0.82	0.58	1.39	3.45	2.06	46	15	24.8	0.3	24.5	1.2 a
35048	VG8	OY720307	0.82	0.57	1.38	3.45	2.07	48	15	25.0	0.3	24.7	1.2 a
35048	VG8	OY720308	0.82	0.58	1.40	3.47	2.07	48	15	25.0	0.2	24.8	0.8 a
35048	VG8	OY720309	0.82	0.58	1.39	3.46	2.07	47	15	24.9	0.1	24.8	0.4 a
35047	VG8	OY720310	0.82	0.58	1.40	3.46	2.06	46	14	25.0	0.2	24.8	0.8 a
35048	VG8	OY720311	0.82	0.57	1.38	3.47	2.09	48	15	25.0	0.0	25.0	0.0 a
35048	VG8	OY720312	0.82	0.57	1.38	3.46	2.08	49	16	25.2	0.2	25.0	0.8 a
35048	VG8	OY720313	0.82	0.59	1.40	3.47	2.07	48	15	25.0	0.0	25.0	0.0 a
35048	VG8	OY720314	0.82	0.58	1.40	3.47	2.07	48	15	25.0	0.2	24.8	0.8 a
35048	VG8	OY720315	0.82	0.58	1.40	3.45	2.06	49	16	25.0	0.1	24.9	0.4 a
35048	VG8	OY720316	0.82	0.57	1.39	3.45	2.06	48	15	25.0	0.1	24.9	0.4 a
35047	VG8	OY720317	0.82	0.57	1.38	3.45	2.07	47	15	24.9	0.2	24.7	0.8 a
35048	VG8	OY720318	0.82	0.59	1.40	3.46	2.06	47	15	24.9	0.1	24.8	0.4 a
35048	VG8	OY720319	0.82	0.58	1.40	3.46	2.07	47	15	24.9	0.1	24.8	0.4 a
35048	VG8	OY720320	0.82	0.58	1.40	3.46	2.06	47	15	25.0	0.1	24.9	0.4 a
35048	VG8	OY720321	0.82	0.57	1.39	3.45	2.07	46	14	24.7	0.1	24.6	0.4 a
35047	VG8	OY720322	0.82	0.57	1.39	3.44	2.06	47	14	24.9	0.3	24.6	1.2 a
35048	VG8	OY720323	0.82	0.59	1.40	3.47	2.07	47	15	24.9	0.4	24.5	1.6 a

Certified by  on behalf of Luxfer

Accepted by  on behalf of Arrowhead



ARROWHEAD INDUSTRIAL SERVICES USA, INC.  
RIVERSIDE, CALIFORNIA

REPORT OF MANUFACTURE OF FRP SEAMLESS ALUMINUM-LINED CYLINDERS  
WEIGHT AND HYDROSTATIC TEST DATA FOR FRP COMPRESSED GAS CYLINDERS

MANUFACTURED BY: LUXFER COMPOSITE CYLINDERS DIVISION  
FOR: LUX. EUROPE

TEST DATES: a = 01 Jun 2023  
b = 31 May 2023  
c = 04 Jun 2023

LOT NO: OY500  
P/N: LUXFER L19C  
LUX. EUROPE L19C

TYPE: C

NUMBERED OY720270 to OY720357 inclusive.

ALL CYLINDERS WEIGHED WITHOUT VALVE AND PAINT  
\*\*CYLINDER PREVIOUSLY EXPOSED TO AUTOFRETTAGE  
\* RETESTED AT: 457 BAR

AUTOFRETTAGE PRESSURE: 570 BAR  
HYDROSTATIC TEST PRESSURE: 450 BAR

Heat Treat Insp Lot #	Mat. Code	Serial No.	MASS, kg				Volume Liters	AUTOFRETTAGE ml		HYDROSTATIC ml			RATIO  Perm/ Total (percent)
			Liner	Comp.	Empty	Full		Total Exp.	Perm Exp.	Total Exp.	Perm Exp.	Elas. Exp.	
35048	VG8	OY720324	0.82	0.57	1.39	3.46	2.07	46	14	25.1	0.4	24.7	1.6 a
35048	VG8	OY720325	0.82	0.59	1.40	3.47	2.07	49	16	24.7	0.1	24.6	0.4 a
35048	VG8	OY720326	0.82	0.57	1.39	3.46	2.07	48	15	25.3	0.3	25.0	1.2 a
35048	VG8	OY720327	0.82	0.57	1.39	3.46	2.08	45	16	24.7	0.8	23.9	3.2 a
35048	VG8	OY720328	0.82	0.59	1.41	3.47	2.07	47	15	24.9	0.2	24.7	0.8 a
35048	VG8	OY720329	0.82	0.59	1.41	3.47	2.07	47	14	25.5	0.8	24.7	3.1 a
35048	VG8	OY720330	0.82	0.59	1.41	3.46	2.06	46	14	24.7	0.2	24.5	0.8 a
35047	VG8	OY720331	0.82	0.58	1.40	3.45	2.06	46	14	24.7	0.1	24.6	0.4 a
35048	VG8	OY720332	0.82	0.59	1.40	3.46	2.06	47	15	24.9	0.2	24.7	0.8 a
35048	VG8	OY720333	0.82	0.58	1.39	3.46	2.07	**5	2	25.4	0.1	25.3	0.4 a
35048	VG8	OY720334	0.82	0.59	1.41	3.48	2.07	48	15	25.1	0.4	24.7	1.6 a
35048	VG8	OY720335	0.82	0.60	1.42	3.47	2.06	46	14	24.8	0.2	24.6	0.8 a
35047	VG8	OY720336	0.82	0.58	1.40	3.45	2.06	46	15	24.9	0.1	24.8	0.4 a
35048	VG8	OY720337	0.82	0.57	1.38	3.45	2.07	49	16	25.2	0.1	25.1	0.4 a
35048	VG8	OY720338	0.82	0.59	1.41	3.47	2.07	47	14	24.8	0.2	24.6	0.8 a
35048	VG8	OY720339	0.82	0.57	1.39	3.46	2.07	47	14	24.9	0.2	24.7	0.8 a
35047	VG8	OY720340	0.82	0.58	1.40	3.47	2.07	48	15	24.9	0.1	24.8	0.4 a
35048	VG8	OY720341	0.82	0.59	1.40	3.46	2.06	46	14	24.6	0.1	24.5	0.4 a
35048	VG8	OY720342	0.82	0.56	1.38	3.44	2.07	47	14	25.0	0.3	24.7	1.2 a
35048	VG8	OY720343	0.82	0.59	1.41	3.49	2.09	49	15	25.1	0.2	24.9	0.8 a
35048	VG8	OY720344	0.82	0.57	1.38	3.45	2.07	47	14	24.9	0.1	24.8	0.4 a
35048	VG8	OY720345	0.82	0.59	1.41	3.45	2.05	46	14	24.8	0.4	24.4	1.6 a
35048	VG8	OY720346	0.82	0.57	1.39	3.46	2.07	**35	3	*25.2	0.2	25.0	0.8 a
35047	VG8	OY720347	0.82	0.59	1.40	3.47	2.07	47	14	25.0	0.3	24.7	1.2 a
35048	VG8	OY720348	0.82	0.59	1.40	3.46	2.06	48	15	24.6	0.0	24.6	0.0 a
35048	VG8	OY720349	0.82	0.57	1.39	3.45	2.07	**34	2	*25.2	0.3	24.9	1.2 a
35048	VG8	OY720350	0.82	0.57	1.39	3.45	2.07	49	15	25.0	0.1	24.9	0.4 a
35048	VG8	OY720351	0.82	0.58	1.39	3.45	2.06	47	14	25.0	0.2	24.8	0.8 a
35047	VG8	OY720352	0.82	0.57	1.38	3.45	2.07	47	14	25.0	0.4	24.6	1.6 a
35048	VG8	OY720353	0.82	0.58	1.40	3.47	2.07	48	15	24.9	0.1	24.8	0.4 a
35297	VG8	OY720354	0.82	0.57	1.39	3.43	2.05	45	13	24.5	0.0	24.5	0.0 a
35297	VG8	OY720355	0.82	0.59	1.40	3.46	2.06	44	13	24.4	0.2	24.2	0.8 a
35295	VG8	OY720356	0.82	0.57	1.39	3.44	2.06	46	13	24.6	0.1	24.5	0.4 a
35297	VG8	OY720357	0.82	0.59	1.41	3.46	2.05	46	13	24.9	0.1	24.8	0.4 a

Certified by  on behalf of Luxfer

Accepted by  on behalf of Arrowhead