

REVISED FINAL REPORT

API RECOMMENDED PRACTICE 13C SHAPE SHAKER SCREEN TESTING

Premium (Liaoning) Oilfield Technology Co., Ltd

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PROJECT NO

WTC-24-010323

COMPILED BY

Intertek Westport Technology Center

DATE

January 31, 2025

API COMPLIANCE CERTIFICATE





Issuing Office: Westport Technology Center

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WTC-24-010323



Introduction

At the request of Premium (Liaoning) Oilfield Technology Co., Ltd, API Recommended Practice 13C shale shaker screen testing was conducted on nine shale shaker screens.

Experimental Procedures

API Recommended Practice 13C Shale Shaker Screen Designation Determination

API Recommended Practice 13C Shale Shaker Screen Determination Testing was performed using the shale shaker screen coupons cut from each of the nine shale shaker screens provided following the procedure detailed therein.

API Recommended Practice 13C Shale Shaker Screen Conductance

API Recommended Practice 13C Shale Shaker Screen Conductance Testing was performed using shale shaker screen coupons cut from each of the nine shale shaker screens provided following the procedure detailed therein.

API Recommended Practice 13C Shale Shaker Screen Non-Blanked Area Determination

API Recommended Practice 13C Shale Shaker Screen Non-Blanked Area determination was conducted using nine "as received" shale shaker screens following the procedure detailed therein.

Results and Discussion

A summary of the results of the Shale Shaker Screen Testing conducted is presented in Table 1. The results of the API Shale Shaker Screen Designation Determination Testing are presented in Tables 2-10. The results of the API Shale Shaker Screen Conductance Testing are presented in Figures 1-9.



CONTENTS

List of Data Tables

	<u>page</u>
Table 1	API Recommended Practice 13C Shale Shaker Screen Test Results 6
Table 2	API Recommended Practice 13C Shale Shaker Screen Designation Test Results for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A60 7
Table 3	API Recommended Practice 13C Shale Shaker Screen Designation Test Results for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A80 8
Table 4	API Recommended Practice 13C Shale Shaker Screen Designation Test Results for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A100 9
Table 5	API Recommended Practice 13C Shale Shaker Screen Designation Test Results for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A120 10
Table 6	API Recommended Practice 13C Shale Shaker Screen Designation Test Results for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A140 11
Table 7	API Recommended Practice 13C Shale Shaker Screen Designation Test Results for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A170 12
Table 8	API Recommended Practice 13C Shale Shaker Screen Designation Test Results for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A200 13
Table 9	API Recommended Practice 13C Shale Shaker Screen Designation Test Results for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A230 14
Table 10	API Recommended Practice 13C Shale Shaker Screen Designation Test Results for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A270 15



CONTENTS

List of Figures

	<u>page</u>
Figure 1 API Recommended Practice 13C Shale Shaker Screen Conductance Testing for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A60	16
Figure 2 API Recommended Practice 13C Shale Shaker Screen Conductance Testing for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A80	17
Figure 3 API Recommended Practice 13C Shale Shaker Screen Conductance Testing for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A100	18
Figure 4 API Recommended Practice 13C Shale Shaker Screen Conductance Testing for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A120	19
Figure 5 API Recommended Practice 13C Shale Shaker Screen Conductance Testing for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A140	20
Figure 6 API Recommended Practice 13C Shale Shaker Screen Conductance Testing for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A170	21
Figure 7 API Recommended Practice 13C Shale Shaker Screen Conductance Testing for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A200	22
Figure 8 API Recommended Practice 13C Shale Shaker Screen Conductance Testing for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A230	23
Figure 9 API Recommended Practice 13C Shale Shaker Screen Conductance Testing for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A270	24



Table 1: API Recommended Practice 13C Shale Shaker Screen Test Results

Label	API Screen Designation	D100 (microns)	Screen Conductance (Kd/mm)	Estimated Non-Blanked Area (ft ²)
P-PMD2000-DX-A60	60	270.17	4.80	6.50
P-PMD2000-DX-A80	80	170.51	3.35	6.50
P-PMD2000-DX-A100	100	142.25	2.70	6.50
P-PMD2000-DX-A120	120	128.97	2.28	6.50
P-PMD2000-DX-A140	170	86.31	1.33	6.50
P-PMD2000-DX-A170	170	87.88	2.11	6.50
P-PMD2000-DX-A200	200	73.93	1.24	6.50
P-PMD2000-DX-A230	230	61.56	0.91	6.50
P-PMD2000-DX-A270	270	51.47	0.64	6.50



Table 2: API Recommended Practice 13C Shale Shaker Screen Designation Test Results for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A60

Sieve	Sieve	Test 1	Test 2	Test 3	Test Average	Test Average	Average	Cumulative
(#)	(µm)	(g)	(g)	(g)	Average	Cumulative	Retained	Retained
					(g)	(g)	(%)	(%)
45.00	355.00	0.32	0.34	0.29	0.32	0.32	1.59	1.59
50.00	300.00	4.72	4.77	4.75	4.75	5.06	23.77	25.36
Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A60	0.00	3.67	3.69	3.38	3.58	8.64	17.93	43.29
60.00	250.00	2.15	2.65	2.42	2.41	11.05	12.05	55.34
70.00	212.00	3.18	2.58	3.56	3.11	14.16	15.56	70.90
80.00	180.00	4.94	5.00	4.82	4.92	19.08	24.64	95.54
pan	pan	0.99	0.94	0.74	0.89	19.97	4.46	100.00
Sieve	Sieve	Average Al ₂ O ₃	Line equation		y = -0.1197x+40.983			
(#)	(µm)	(g)						
50.00	300.00	5.06						
Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A60	270.17	8.64	Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A60		= API 60			
60	250	11.05	API 60		231 µm > 275 µm			



Table 3: API Recommended Practice 13C Shale Shaker Screen Designation Test Results for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A80

Sieve	Sieve	Test 1	Test 2	Test 3	Test Average	Test Average	Average	Cumulative
(#)	(μm)	(g)	(g)	(g)	Average	Cumulative	Retained	Retained
					(g)	(g)	(%)	(%)
70.00	212.00	0.07	0.10	0.17	0.11	0.11	0.57	0.57
80.00	180.00	4.69	4.80	4.73	4.74	4.85	23.73	24.30
Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A80	0.00	1.80	1.75	1.80	1.78	6.64	8.93	33.22
100.00	150.00	3.83	3.82	3.86	3.84	10.47	19.21	52.43
120.00	125.00	4.56	4.72	4.78	4.69	15.16	23.46	75.89
140.00	106.00	4.68	4.45	4.46	4.53	19.69	22.68	98.56
pan	pan	0.34	0.34	0.18	0.29	19.98	1.44	100.00
Sieve	Sieve	Average Al_2O_3	Line equation		$y = -0.1873x + 38.573$			
(#)	(μm)	(g)						
80.00	180.00	4.85						
Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A80	170.51	6.64	Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A80		= API 80			
100	150	10.47	API 80		165 μm > 196 μm			



Table 4: API Recommended Practice 13C Shale Shaker Screen Designation Test Results for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A100

Sieve	Sieve	Test 1	Test 2	Test 3	Test Average	Test Average	Average	Cumulative
(#)	(μm)	(g)	(g)	(g)	Average	Cumulative	Retained	Retained
					(g)	(g)	(%)	(%)
80.00	180.00	0.44	0.37	0.34	0.38	0.38	1.92	1.92
100.00	150.00	4.76	4.72	4.77	4.75	5.13	23.79	25.71
Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A100	0.00	1.76	1.69	1.58	1.68	6.81	8.40	34.11
120.00	125.00	4.08	3.44	3.68	3.73	10.54	18.70	52.80
140.00	106.00	4.57	4.91	4.71	4.73	15.27	23.69	76.49
170.00	90.00	3.94	4.41	4.45	4.27	19.54	21.37	97.86
pan	pan	0.44	0.42	0.42	0.43	19.97	2.14	100.00
Sieve	Sieve	Average Al_2O_3	Line equation		$y = -0.2164x + 37.593$			
(#)	(μm)	(g)						
100.00	150.00	5.13						
Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A100	142.25	6.81	Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A100		= API 100			
120	125	10.54	API 100		137.5 μm > 165 μm			



Table 5: API Recommended Practice 13C Shale Shaker Screen Designation Test Results for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A120

Sieve	Sieve	Test 1	Test 2	Test 3	Test Average	Test Average	Average	Cumulative
(#)	(μm)	(g)	(g)	(g)	Average	Cumulative	Retained	Retained
					(g)	(g)	(%)	(%)
80.00	180.00	0.20	0.20	0.28	0.23	0.23	1.13	1.13
100.00	150.00	4.83	4.92	4.87	4.87	5.10	24.40	25.53
Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A120	0.00	4.58	4.20	4.17	4.32	9.42	21.61	47.14
120.00	125.00	0.62	0.91	0.93	0.82	10.24	4.10	51.24
140.00	106.00	4.77	4.81	4.77	4.78	15.02	23.94	75.19
170.00	90.00	4.54	4.56	4.59	4.56	19.58	22.84	98.03
pan	pan	0.44	0.39	0.35	0.39	19.98	1.97	100.00
Sieve	Sieve	Average Al_2O_3	Line equation		$y = -0.2055x + 35.92$			
(#)	(μm)	(g)						
100.00	150.00	5.10						
Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A120	128.97	9.42	Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A120		= API 120			
120	125	10.24	API 120		116.5 μm > 137.5 μm			



Table 6: API Recommended Practice 13C Shale Shaker Screen Designation Test Results for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A140

Sieve	Sieve	Test 1	Test 2	Test 3	Test Average	Test Average	Average	Cumulative
(#)	(μm)	(g)	(g)	(g)	Average	Cumulative	Retained	Retained
					(g)	(g)	(%)	(%)
140.00	106.00	0.55	0.58	0.38	0.50	0.50	2.52	2.52
170.00	90.00	4.66	4.72	4.89	4.76	5.26	23.81	26.33
Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A140	0.00	1.57	1.20	1.30	1.36	6.62	6.79	33.12
200.00	75.00	4.10	4.21	4.21	4.17	10.79	20.89	54.00
230.00	63.00	4.53	4.49	4.47	4.50	15.29	22.51	76.51
270.00	53.00	3.97	4.15	4.15	4.09	19.38	20.47	96.98
pan	pan	0.58	0.64	0.59	0.60	19.98	3.02	100.00
Sieve	Sieve	Average Al ₂ O ₃	Line equation		y = -0.3687x+38.44			
(#)	(μm)	(g)						
170.00	90.00	5.26						
Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A140	86.31	6.62	Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A140		= API 170			
200	75	10.79	API 170		82.5 μm > 98 μm			



Table 7: API Recommended Practice 13C Shale Shaker Screen Designation Test Results for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A170

Sieve	Sieve	Test 1	Test 2	Test 3	Test Average	Test Average	Average	Cumulative
(#)	(μm)	(g)	(g)	(g)	Average	Cumulative	Retained	Retained
		(g)	(g)	(g)	(g)	(g)	(%)	(%)
120.00	106.00	0.98	0.97	0.97	0.97	0.97	4.87	4.87
140.00	90.00	4.97	4.86	4.62	4.82	5.79	24.10	28.96
Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A170	0.00	0.85	0.49	0.50	0.61	6.40	3.07	32.03
170.00	75.00	3.66	3.68	3.94	3.76	10.16	18.81	50.84
200.00	63.00	4.82	4.86	4.81	4.83	14.99	24.16	75.00
230.00	53.00	4.29	4.70	4.76	4.58	19.58	22.93	97.93
pan	pan	0.42	0.43	0.39	0.41	19.99	2.07	100.00
Sieve	Sieve	Average Al_2O_3	Line equation		$y = -0.2916x + 32.03$			
(#)	(μm)	(g)						
140.00	90.00	5.79						
Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A170	87.88	6.40	Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A170		= API 170			
170	75	10.16	API 170		82.5 μm > 98 μm			



Table 8: API Recommended Practice 13C Shale Shaker Screen Designation Test Results for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A200

Sieve	Sieve	Test 1	Test 2	Test 3	Test Average	Test Average	Average	Cumulative
(#)	(μm)	(g)	(g)	(g)	Average	Cumulative	Retained	Retained
					(g)	(g)	(%)	(%)
170.00	90.00	0.56	0.42	0.47	0.48	0.48	2.42	2.42
200.00	75.00	4.33	4.36	4.33	4.34	4.82	21.73	24.15
Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A200	0.00	0.45	0.48	0.50	0.48	5.30	2.39	26.54
230.00	63.00	4.91	4.91	4.97	4.93	10.23	24.69	51.23
270.00	53.00	4.95	4.95	4.95	4.95	15.18	24.79	76.01
325.00	45.00	4.29	4.33	4.26	4.29	19.47	21.50	97.51
pan	pan	0.45	0.54	0.50	0.50	19.97	2.49	100.00
Sieve	Sieve	Average Al_2O_3	Line equation		$y = -0.4506x + 38.615$			
(#)	(μm)	(g)						
200.00	75.00	4.82						
Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A200	73.93	5.30	Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A200		= API 200			
230	63	10.23	API 200		69.0 μm > 82.5 μm			



Table 9: API Recommended Practice 13C Shale Shaker Screen Designation Test Results for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A230

Sieve	Sieve	Test 1	Test 2	Test 3	Test Average	Test Average	Average	Cumulative
(#)	(μm)	(g)	(g)	(g)	Average	Cumulative	Retained	Retained
					(g)	(g)	(%)	(%)
200.00	75.00	0.75	0.76	0.80	0.77	0.77	3.86	3.86
230.00	63.00	4.42	4.37	4.42	4.40	5.17	22.05	25.91
Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A230	0.00	0.88	0.77	0.74	0.80	5.97	3.99	29.90
270.00	53.00	4.65	4.77	4.75	4.72	10.69	23.66	53.56
325.00	45.00	4.87	4.83	4.87	4.86	15.55	24.32	77.88
400.00	38.00	4.13	4.16	4.14	4.14	19.69	20.75	98.63
pan	pan	0.25	0.30	0.27	0.27	19.97	1.37	100.00
					19.93			
Sieve	Sieve	Average Al_2O_3	Line equation		$y = -0.552x + 39.949$			
(#)	(μm)	(g)						
230.00	63.00	5.17						
Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A230	61.56	5.97	Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A230		= API 230			
270	53	10.69	API 230		58 μm > 69 μm			



Table 10: API Recommended Practice 13C Shale Shaker Screen Designation Test Results for the Shale Shaker Screen Coupon Labeled P-PMD2000-DX-A270

Sieve	Sieve	Test 1	Test 2	Test 3	Test Average	Test Average	Average	Cumulative
(#)	(μm)	(g)	(g)	(g)	Average	Cumulative	Retained	Retained
					(g)	(g)	(%)	(%)
230.00	63.00	0.29	0.41	0.28	0.33	0.33	1.63	1.63
270.00	53.00	4.74	4.81	4.76	4.77	5.10	23.86	25.50
Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A270	0.00	1.16	1.02	1.05	1.08	6.17	5.39	30.88
325.00	45.00	4.36	4.47	4.81	4.55	10.72	22.74	53.63
400.00	38.00	4.85	4.72	4.41	4.66	15.38	23.31	76.94
450.00	32.00	3.88	3.70	3.78	3.79	19.17	18.94	95.88
pan	pan	0.72	0.86	0.89	0.82	19.99	4.12	100.00
Sieve	Sieve	Average Al_2O_3	Line equation		$y = -0.7029x + 42.351$			
(#)	(μm)	(g)						
270.00	53.00	5.10						
Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A270	51.47	6.17	Shale Shaker Screen Coupon Labeled P- PMD2000-DX-A270		= API 270			
325	45	10.72	API 270		49 μm > 58 μm			

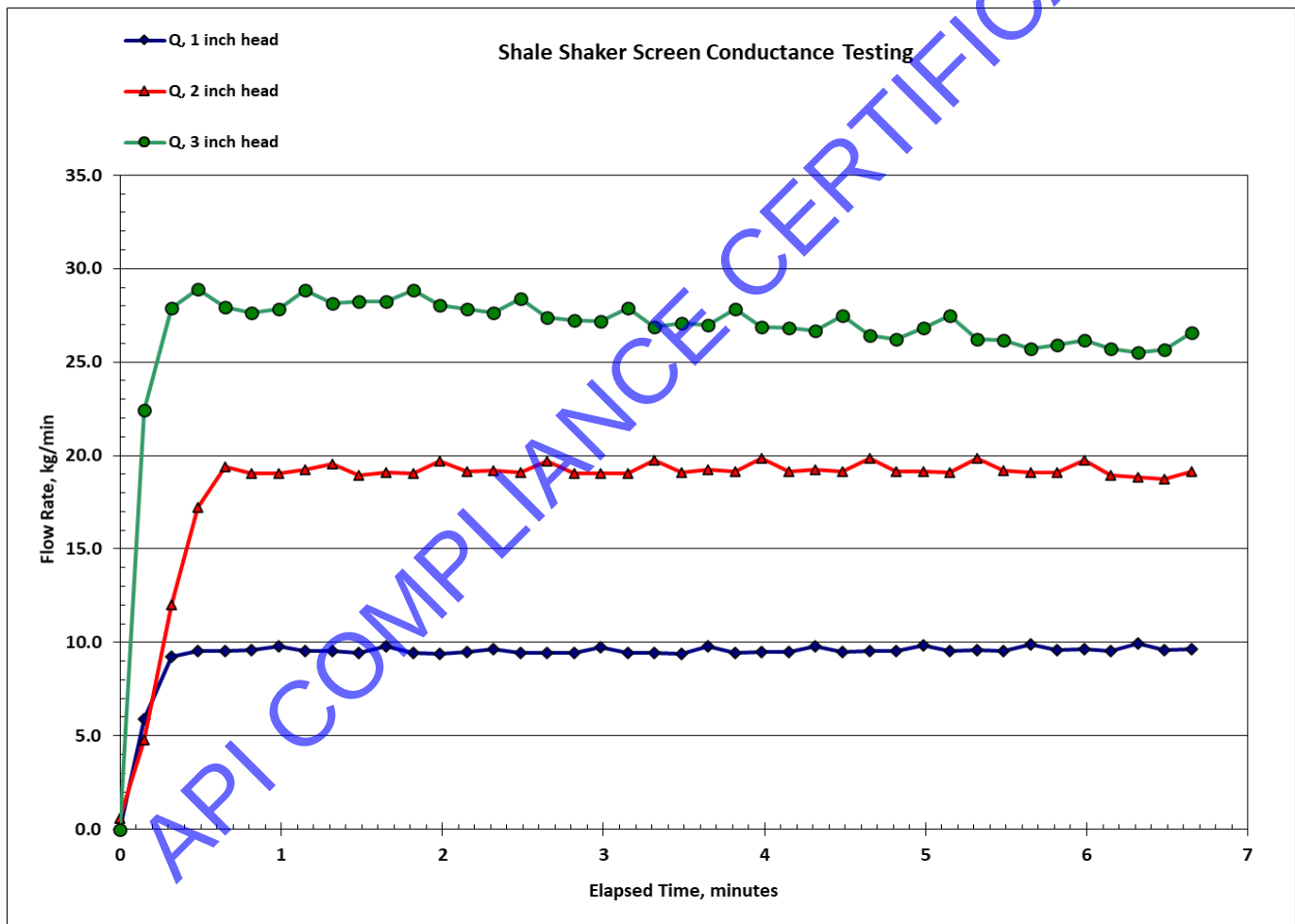


Manufacturer: Premium Oilfield Technology
Screen ID: P-PMD2000-DX-A60
LIMS #: WTC-24-010323-001

Screen Diameter: 14.478 cm 5.70 inches
Screen Thickness: 0.10922 cm 0.043 inches
Area of Screen: 164.63 cm² 25.52 in²

	Oil Height (inches)	Avg. Temp. (°F)	Oil Density (g/cm ³)	Oil Viscosity (cP)	Pressure Drop (atm)	Mass Flow (kg/min)	Volume Flow Rate (cm ³ /sec)	Screen Conductance (kD/mm)
Run 1	1.13	79.17	0.8544	104.0	0.00236	9.72	190	5.07
Run 2	2.13	81.52	0.8537	97.8	0.00445	18.80	367	4.89
Run 3	3.13	83.54	0.8531	93.1	0.00655	26.17	511	4.42

Average Conductance, kD/mm **4.80**



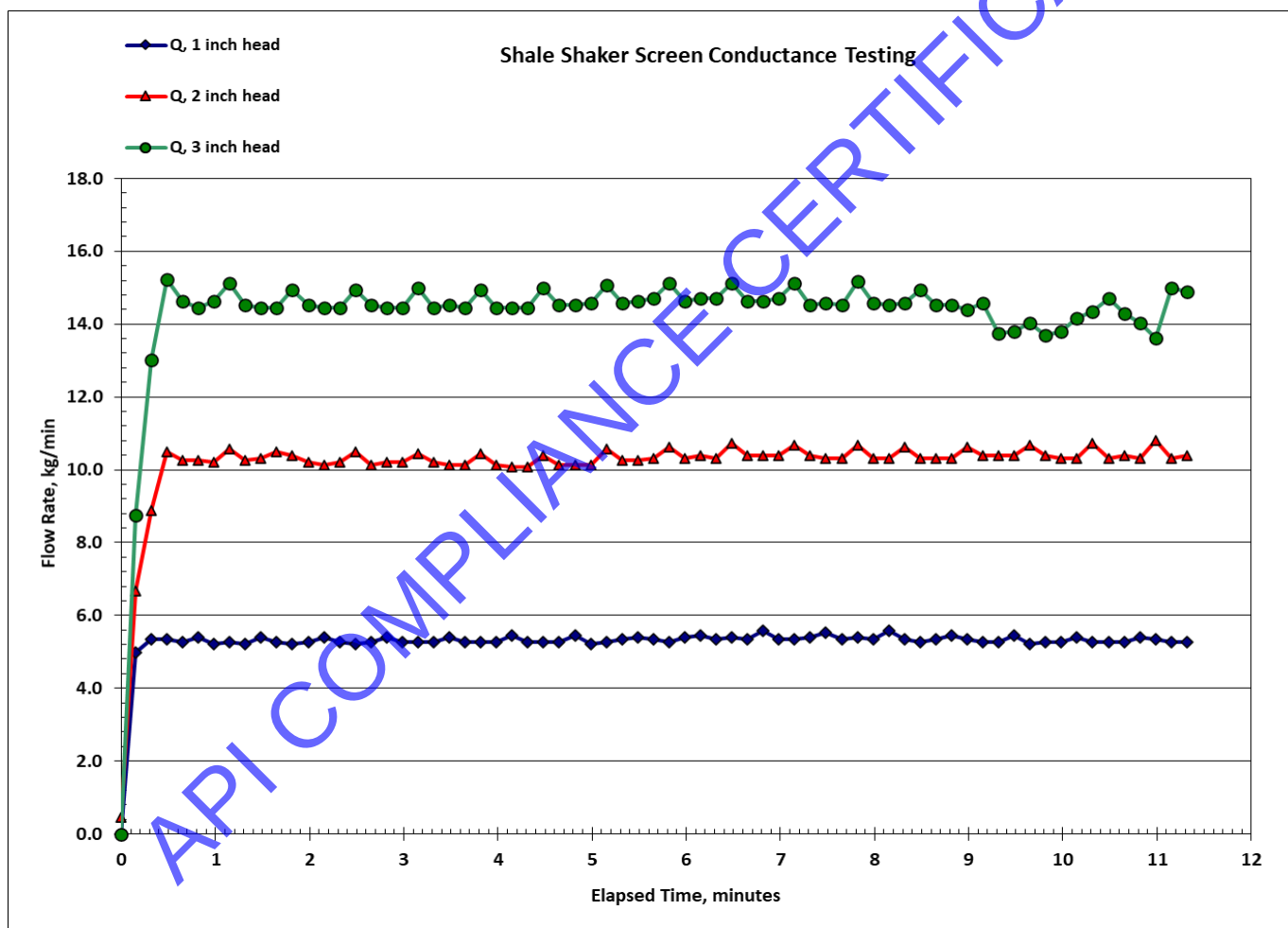


Manufacturer: Premium Oilfield Technology
 Screen ID: P-PMD2000-DX-A80
 LIMS #: WTC-24-010323-002

Screen Diameter: 14.45 cm 5.69 inches
 Screen Thickness: 0.109 cm 0.043 inches
 Area of Screen: 164.05 cm² 25.43 in²

	Oil Height (inches)	Avg. Temp. (°F)	Oil Density (g/cm ³)	Oil Viscosity (cP)	Pressure Drop (atm)	Mass Flow (kg/min)	Volume Flow Rate (cm ³ /sec)	Screen Conductance (kD/mm)
Run 1	1.13	73.11	0.8563	124.7	0.00237	5.35	104	3.35
Run 2	2.13	71.83	0.8567	129.9	0.00447	10.41	202	3.59
Run 3	3.13	74.61	0.8558	119.0	0.00657	14.52	283	3.12

Average Conductance, kD/mm **3.35**



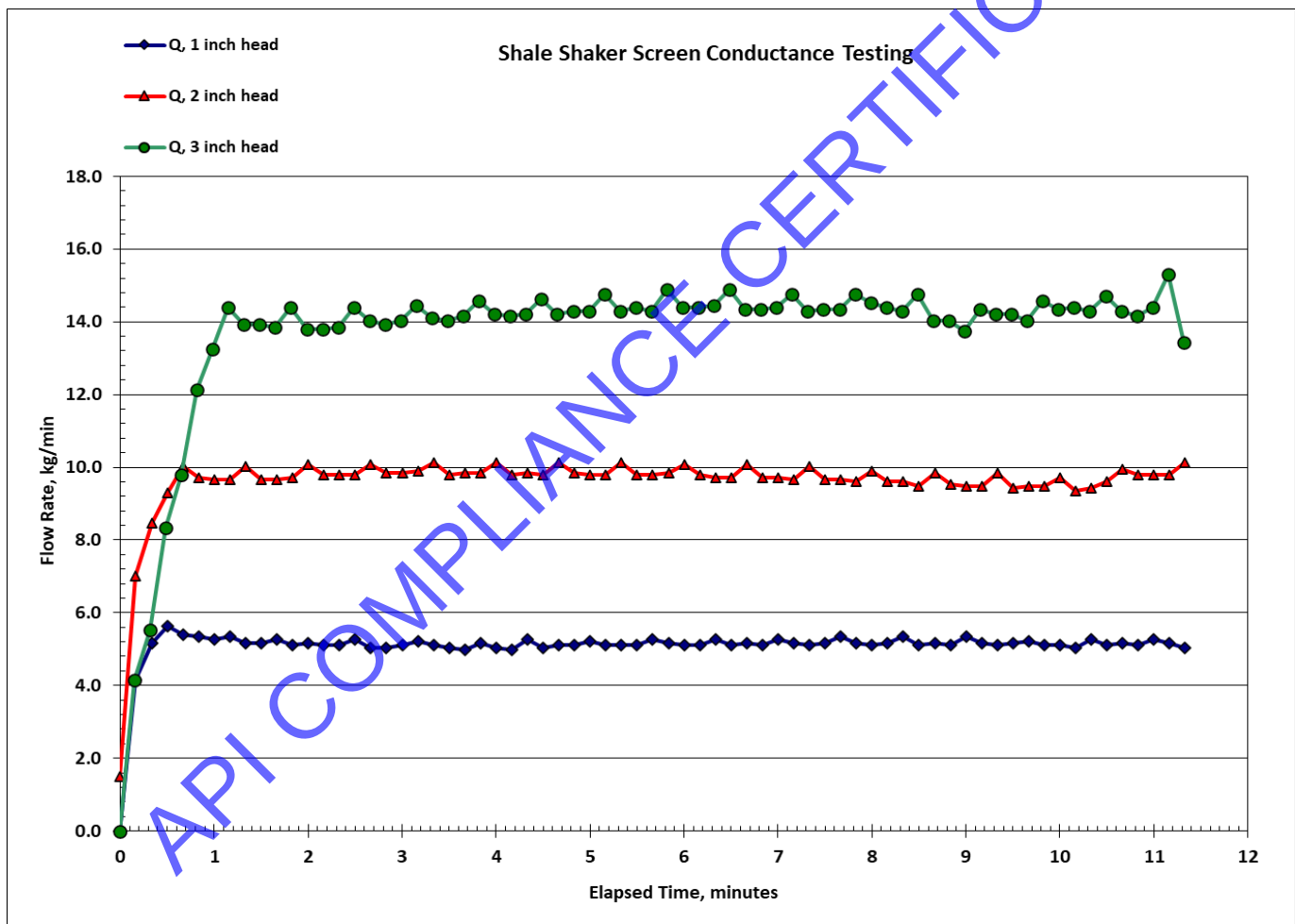


Manufacturer: Premium Oilfield Technology
Screen ID: P-PMD2000-DX-A100
LIMS #: WTC-24-010323-003

Screen Diameter: 14.53 cm 5.72 inches
Screen Thickness: 0.107 cm 0.042 inches
Area of Screen: 165.79 cm² 25.70 in²

	Oil Height (inches)	Avg. Temp. (°F)	Oil Density (g/cm ³)	Oil Viscosity (cP)	Pressure Drop (atm)	Mass Flow (kg/min)	Volume Flow Rate (cm ³ /sec)	Screen Conductance (kD/mm)
Run 1	1.13	78.02	0.8548	107.5	0.00236	5.16	101	2.76
Run 2	2.13	78.55	0.8546	105.9	0.00446	9.73	190	2.72
Run 3	3.13	79.98	0.8542	101.8	0.00655	14.40	281	2.63

Average Conductance, kD/mm 2.70



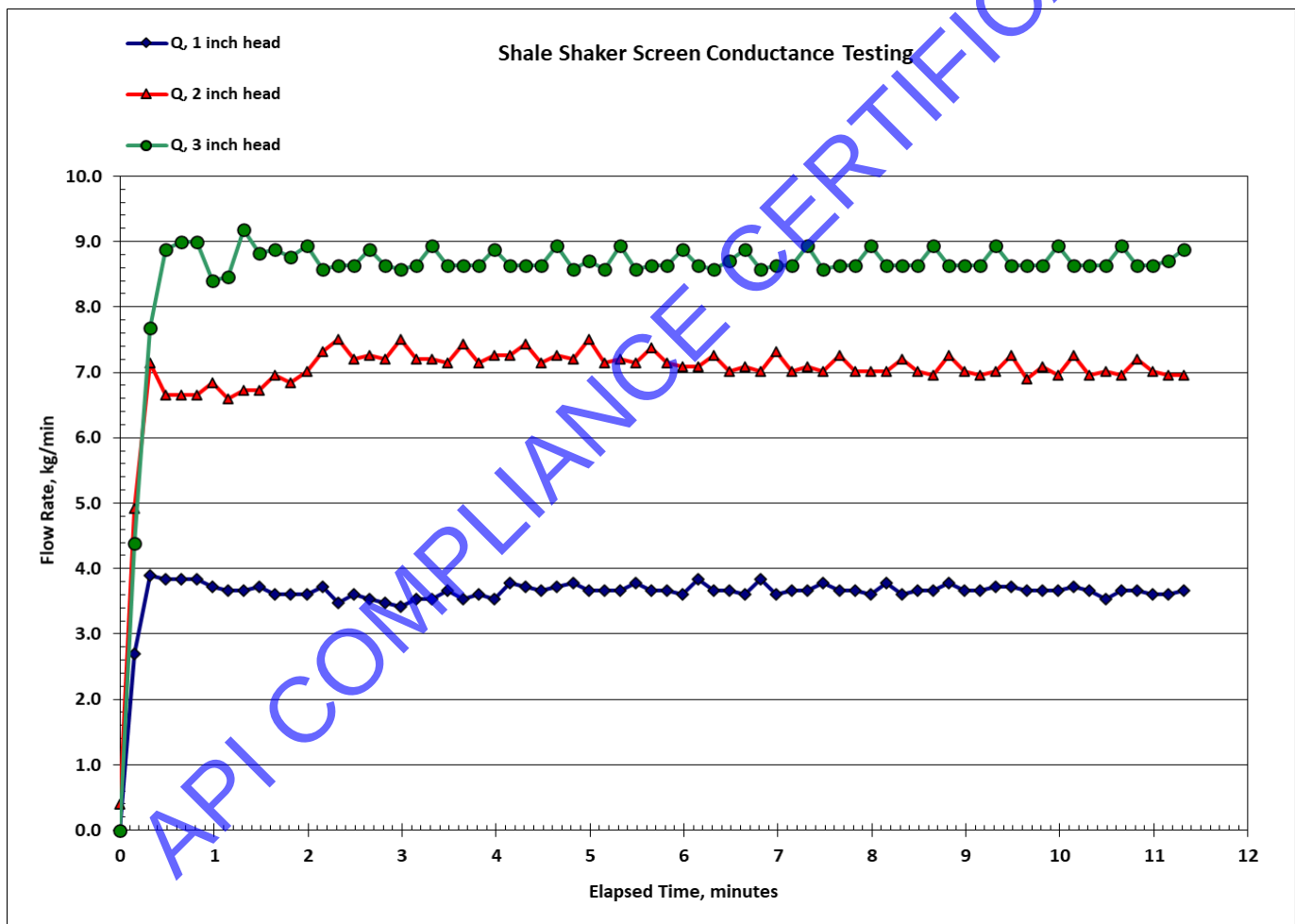


Manufacturer: Premium Oilfield Technology
Screen ID: P-PMD2000-DX-A120
LIMS #: WTC-24-010323-004

Screen Diameter: 14.58 cm 5.74 inches
Screen Thickness: 0.109 cm 0.043 inches
Area of Screen: 166.95 cm² 25.88 in²

	Oil Height (inches)	Avg. Temp. (°F)	Oil Density (g/cm ³)	Oil Viscosity (cP)	Pressure Drop (atm)	Mass Flow (kg/min)	Volume Flow Rate (cm ³ /sec)	Screen Conductance (kD/mm)
Run 1	1.13	72.05	0.8566	128.9	0.00237	3.68	72	2.33
Run 2	2.13	72.91	0.8563	125.5	0.00447	7.11	138	2.33
Run 3	3.13	69.15	0.8575	141.6	0.00658	8.71	169	2.18

Average Conductance, kD/mm 2.28



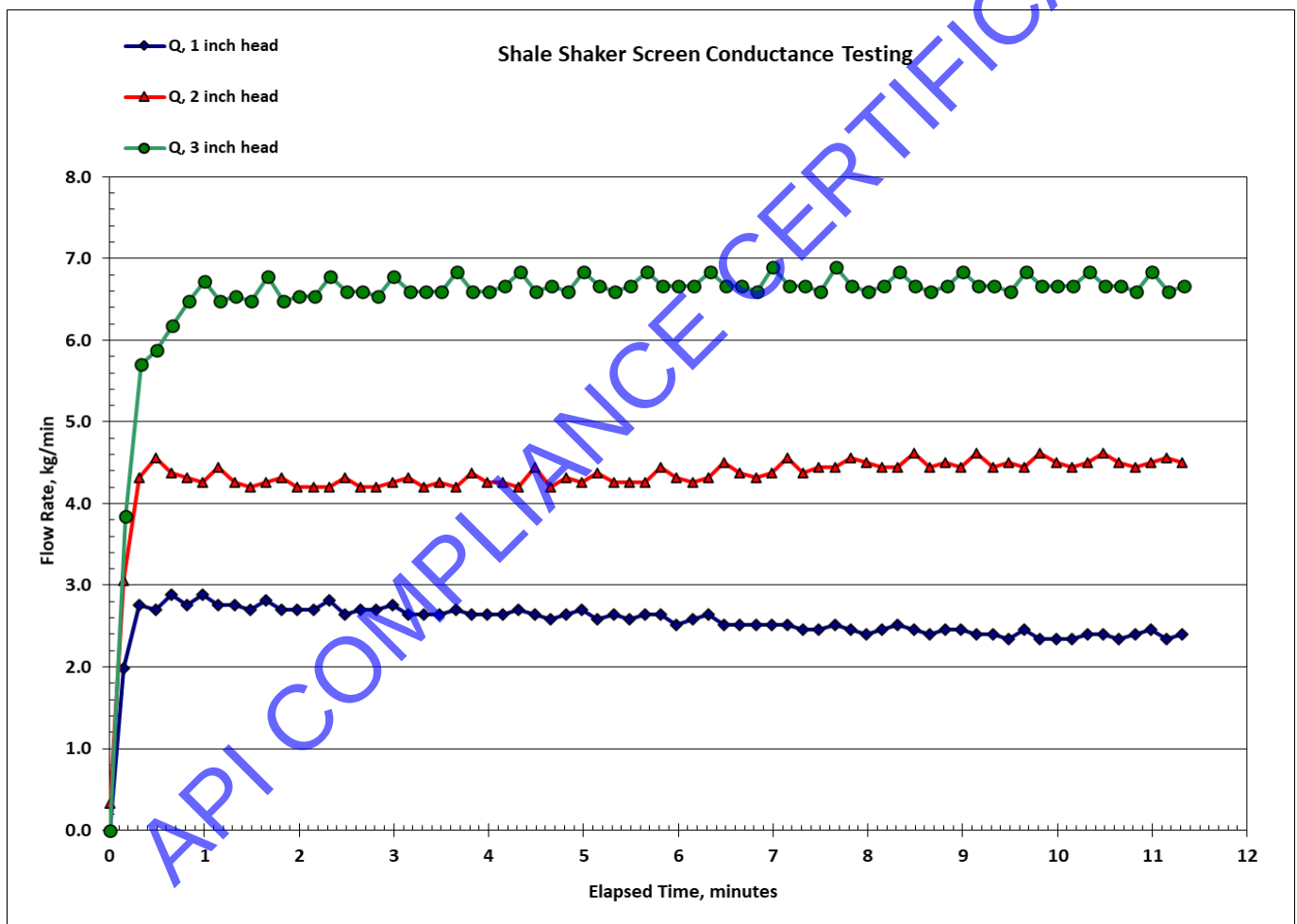


Manufacturer: Premium Oilfield Technology
Screen ID: P-PMD2000-DX-A140
LIMS #: WTC-24-010323-005

Screen Diameter: 14.53 cm 5.72 inches
Screen Thickness: 0.109 cm 0.043 inches
Area of Screen: 165.79 cm² 25.70 in²

	Oil Height (inches)	Avg. Temp. (°F)	Oil Density (g/cm ³)	Oil Viscosity (cP)	Pressure Drop (atm)	Mass Flow (kg/min)	Volume Flow Rate (cm ³ /sec)	Screen Conductance (kD/mm)
Run 1	1.13	77.34	0.8550	109.6	0.00236	2.48	48	1.36
Run 2	2.13	76.24	0.8553	113.2	0.00446	4.43	86	1.32
Run 3	3.13	77.26	0.8550	109.9	0.00656	6.69	130	1.32

Average Conductance, kD/mm **1.33**



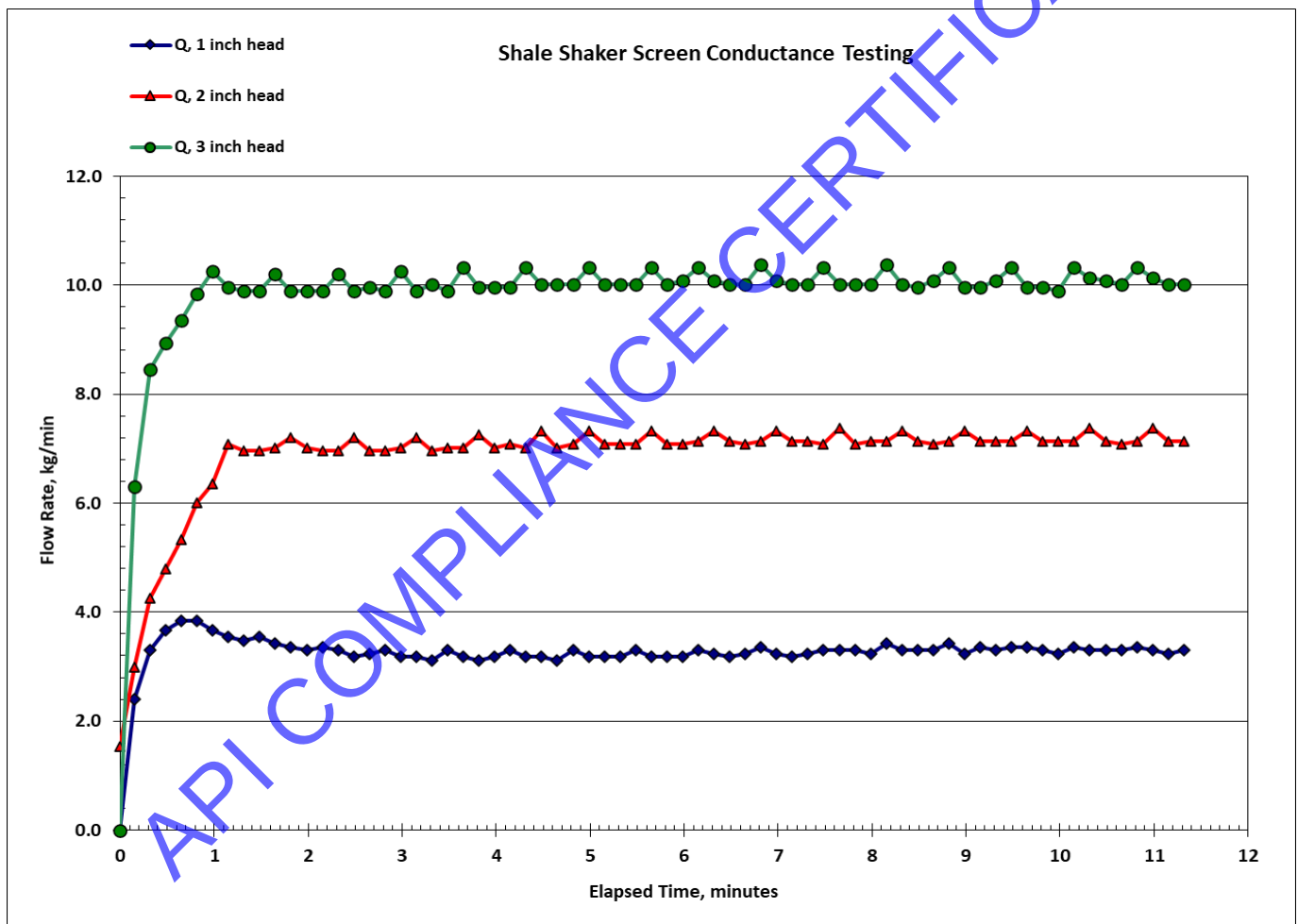


Manufacturer: Premium Oilfield Technology
Screen ID: P-PMD2000-DX-A170
LIMS #: WTC-24-010323-006

Screen Diameter: 14.58 cm 5.74 inches
Screen Thickness: 0.107 cm 0.042 inches
Area of Screen: 166.95 cm² 25.88 in²

	Oil Height (inches)	Avg. Temp. (°F)	Oil Density (g/cm ³)	Oil Viscosity (cP)	Pressure Drop (atm)	Mass Flow (kg/min)	Volume Flow Rate (cm ³ /sec)	Screen Conductance (kD/mm)
Run 1	1.13	72.41	0.8565	127.5	0.00237	3.27	64	2.06
Run 2	2.13	75.49	0.8556	115.8	0.00446	7.17	140	2.17
Run 3	3.13	75.09	0.8557	117.2	0.00657	10.10	197	2.10

Average Conductance, kD/mm 2.11



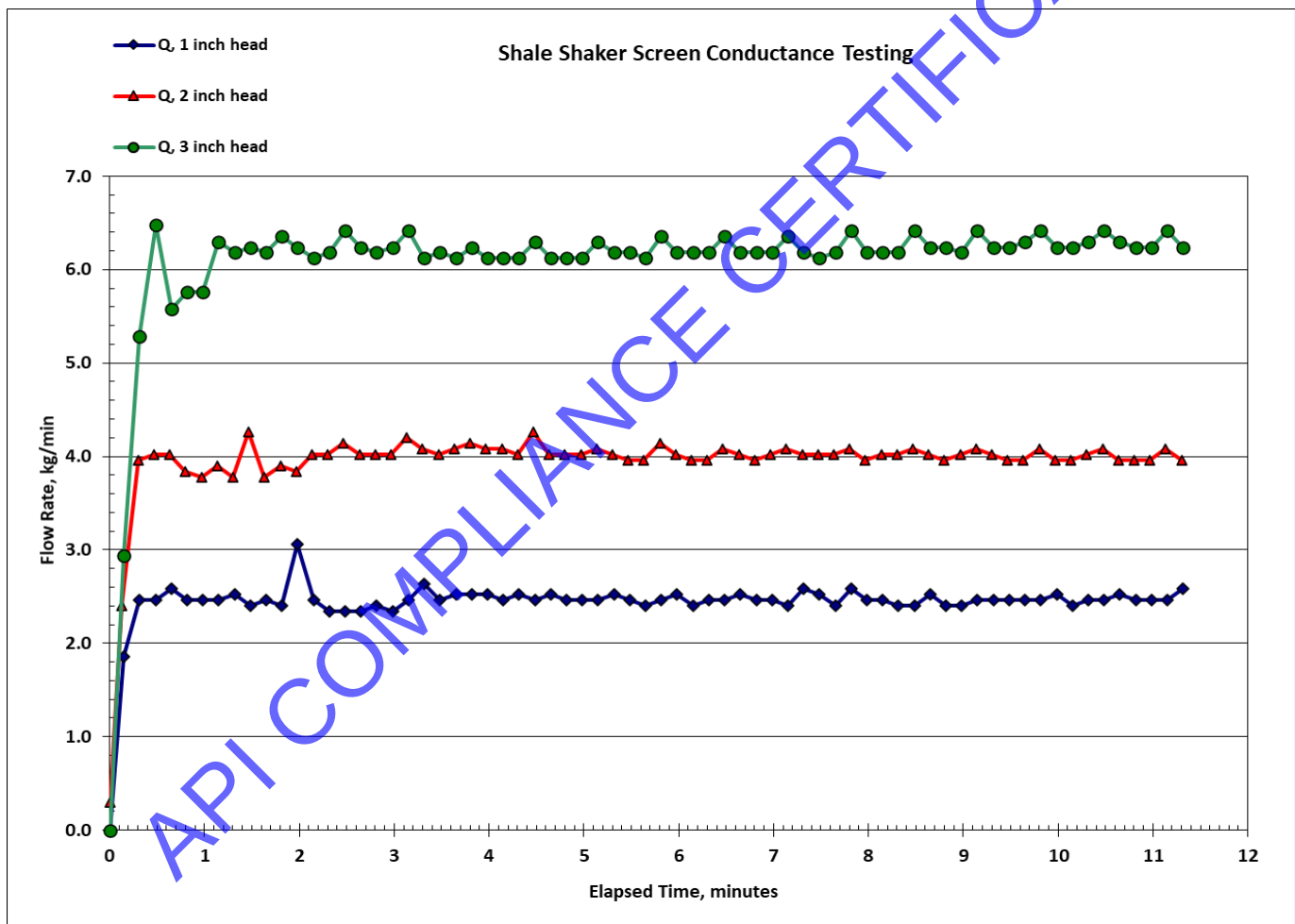


Manufacturer: Premium Oilfield Technology
Screen ID: P-PMD2000-DX-A200
LIMS #: WTC-24-010323-007

Screen Diameter: 14.45 cm 5.69 inches
Screen Thickness: 0.094 cm 0.037 inches
Area of Screen: 164.05 cm² 25.43 in²

	Oil Height (inches)	Avg. Temp. (°F)	Oil Density (g/cm ³)	Oil Viscosity (cP)	Pressure Drop (atm)	Mass Flow (kg/min)	Volume Flow Rate (cm ³ /sec)	Screen Conductance (kD/mm)
Run 1	1.13	77.27	0.8550	109.8	0.00236	2.46	48	1.36
Run 2	2.13	77.39	0.8550	109.4	0.00446	4.02	78	1.17
Run 3	3.13	78.75	0.8546	105.3	0.00656	6.25	122	1.19

Average Conductance, kD/mm **1.24**



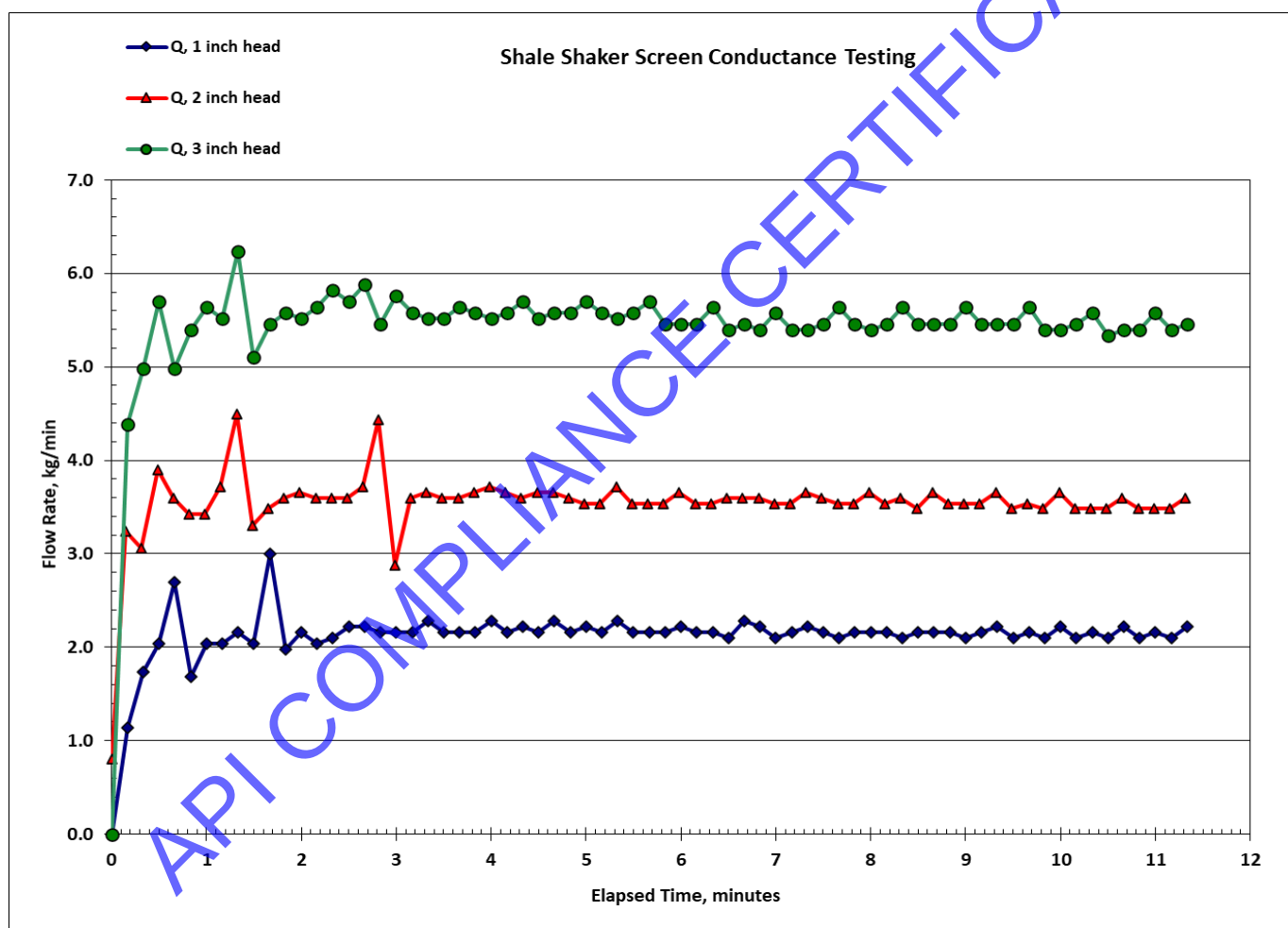


Manufacturer: Premium Oilfield Technology
 Screen ID: P-PMD2000-DX-A230
 LIMS #: WTC-24-010323-008

Screen Diameter: 14.48 cm 5.70 inches
 Screen Thickness: 0.091 cm 0.029 inches
 Area of Screen: 164.63 cm² 25.52 in²

	Oil Height (inches)	Avg. Temp. (°F)	Oil Density (g/cm ³)	Oil Viscosity (cP)	Pressure Drop (atm)	Mass Flow (kg/min)	Volume Flow Rate (cm ³ /sec)	Screen Conductance (kD/mm)
Run 1	1.13	84.60	0.8528	91.0	0.00236	2.16	42	0.99
Run 2	2.13	84.69	0.8528	90.8	0.00445	3.56	70	0.86
Run 3	3.13	85.70	0.8525	89.0	0.00654	5.50	108	0.89

Average Conductance, kD/mm **0.91**





Manufacturer: Premium Oilfield Technology
Screen ID: P-PMD2000-DX-A270
LIMS #: WTC-24-010323-009

Screen Diameter: 14.53 cm 5.72 inches
Screen Thickness: 0.084 cm 0.033 inches
Area of Screen: 165.79 cm² 25.70 in²

	Oil Height (inches)	Avg. Temp. (°F)	Oil Density (g/cm ³)	Oil Viscosity (cP)	Pressure Drop (atm)	Mass Flow (kg/min)	Volume Flow Rate (cm ³ /sec)	Screen Conductance (kD/mm)
Run 1	1.13	71.92	0.8566	129.5	0.00237	1.09	21	0.70
Run 2	2.13	70.16	0.8572	137.0	0.00447	1.71	33	0.61
Run 3	3.13	71.23	0.8568	132.4	0.00657	2.58	50	0.61

Average Conductance, kD/mm 0.64

