TAT

TESTING AND TECHNOLOGY
1027 Alabama St. • P.O. Box 4570 • Suite 104
Vallejo, CA 94590 • (707) 648-5014
San Francisco Office • (415) 753-4464

File

March 21, 1988

Wayne Ross
WILKINSON FORK LIFT
1025 Eastshore Highway
Albany, CA 94710

Dear Wayne:

I would like to take this opportunity to thank you for allowing TAT to be of service to you.

Enclosed are the results of the underground storage tank tests performed on March 17, 1988 at 1025 Eastshore Hwy. in Albany. As you already know all three tanks tested tight, and the results were well within the guidelines set forth by State regulations.

I have sent a copy of this report on to Liz Rose of the Alameda Public Health Department for your convenience.

If you have any further questions regarding this matter, please feel free to call me at, (415) 472-0375.

Sincerely,

Susan T. Lee
Office Manager

STL/lob
Enclosures

CC: Liz Rose, Alameda County Public Health Department.
Jerry Wilkinson, Wilkinson Int. & Development.
Pete Timmerman, Bay Area Tank Testing.

TESTING AND TECHNOLOGY
1377 9th Avenue
San Francisco, CA 9412
(415) 753-4464

INVOICE # 2234 TEST DATE 3/17/88

COMPANY NAME WILKINSON FORK LIFT PHONE # (415) 527-1780

MAIL ADDRESS 1025 EASTSHORE HIGHWAY, ALBANY, CA 94710

TANK ADDRESS SAME

CONTACT NAME WAYNE ROSS PHONE # SAME

SUB CONTRACT THRU PETE TIMMERMAN: BAY AREA TANK TESTING PHONE # (415) 932-4393
2051 N. MAIN ST, WALNUT CREEK, CA

PROPERTY OWNER JERRY WILKINSON

MAILING ADDRESS 2664 MAPLEWOOD LN., SANTA CLARA, CA 95051 PHONE # (408)296-5386

TANK INFORMATION

TANK #	FOUR	FIVE	SIX
PRODUCT	10 W-OIL	30 W-OIL	WASTE OIL
CAPACITY	550	550	1,000
CONSTRUCTION	STEEL	STEEL	STEEL
DIAMETER	44"	45"	45"
FILL PIPE	39"	38"	38"
TANK BOTTOM DEPTH	85	85	83
PUMP TYPE	SUCTION	SUCTION	SUCTION
VAPOR RECOVERY	NONE	NONE	NONE
TANK WATER	0	0	0

TEST INFORMATION

TEST EQUIPMENT	HORNER	HORNER	HORNER
FULL SYST/TANK ONLY	FULL/SYSTEM	FULL/SYSTEM	FULL/SYSTEM
DATE/TIME FILLED	3/16/88	3/16/88	3/16/88
GALLONS TO TOP OFF	UNKNOWN	UNKNOWN	UNKNOWN
GROUND WATER DEPTH	6'(+/-)	6'(+/-)	6'(+/-)
TANK BTM PRESSURE	3.95 PSI	3.95 PSI	3.89 PSI

RESULTS

PASS - FAIL	PASS	PASS	PASS
LOSS RATE	-.0176	-.0219	+.0114

COMMENTS

TESTING AND TECHNOLOGY

TEST REP[redacted]T HORNER 'EZY CHEK' [redacted]K DETECTOR

COMPANY JERRY WILINSON CORP. DATE 3/17/88 INVOICE 2234 TANK # 4

PRODUCT 10W-OIL CAPACITY 550 MEASURED API 30 TEMPERATURE 59

ADJUSTED API 30.1 COEF OF EXPANSION .00044451 TEMP SHIFT FACTOR .2445

CALIBRATING ROD .05 DIVIDED BY # LINES 30 = CHART CALIB FACTOR .00166

OTHER 10 GALLONS ADDED AT 08:45 TO OVERFILL TANK FOR TEST

TIME	TEST HEIGHT	CHART #'S		GAIN LOSS	CHART FACTR	LEVEL RESLT	TEMP STRT	TEMP END	GAIN LOSS	TEMP FACTR	TEMP RESULT	15 MIN RESULT IN GAL	HOURLY RESULT GAL/HR
10:45	+51"	15	7	-8	.0017	-.0136	.072	.064	-.008	.2445	-.0020	-.0116	
11:00	+51"	89	85	-4		-.0068	.064	.095	+.031		+.0076	-.0144	
11:15	+51"	85	80	-5		-.0085	.095	.115	+.020		+.0049	-.0134	
11:30	+51"	53	49	-4		-.0068	.115	.135	+.020		+.0049	-.0117	
11:45	+51"	49	44	-5		-.0085	.135	.137	+.002		+.0005	-.0090	
12:00	+51"	44	39	-5		-.0085	.137	.133	-.004		-.0010	-.0075	-.0416
12:15	+51"	39	36	-3		-.0051	.133	.127	-.006		-.0015	-.0036	-.0318
12:30	+51"	36	34	-2		-.0034	.127	.120	-.007		-.0017	-.0017	-.0218
12:45	+51"	34	30	-4		-.0068	.120	.112	-.008		-.0020	-.0048	-.0175

RESULTS CERTIFIED TIGHT YES AT TEST HEIGHT OF +51" LOSS RATE (GPH) -.0176 (+/-)

TESTED BY 
JACK A. WURTS

COMMENTS

THE DATA FOR THIS TEST MEETS NFPA 329 STANDARDS. THE EQUIPMENT USED TO GENERATE THIS DATA IS ABLE TO DETECT A PRODUCT LOSS AT THE RATE OF 0.05 GALLONS PER HOUR. THIS IS NOT TO BE CONSTRUED AS AN ALLOWABLE LEAK RATE, BUT RATHER AS AN ACCURACY TOLERANCE OF THE TESTING EQUIPMENT WHICH ALLOWS FOR THE MANY VARIABLES INVOLVED. TAT GUARANTEES ONLY THAT THE DATA FOR THIS REPORT MEETS NFPA CRITERIA ON THE DAY OF THIS TEST, TAT MAKES NO WARRANTY OF TANK AND/OR LINE FITNESS NOR DO WE ASSUME RESPONSIBILITY FOR ANY LEAKAGE WHICH MAY HAVE OCCURRED AS A RESULT OF THIS TEST.

TESTING AND TECHNOLOGY

TEST REPORT HORNER 'EZY CHEK' LEAK DETECTOR

COMPANY JERRY WILKISON CORP. DATE 3/17/88 INVOICE 2234 TANK # 5

PRODUCT 30W-OIL CAPACITY 550 MEASURED API 29 TEMPERATURE 60

ADJUSTED API 29.0 COEF OF EXPANSION .00044056 TEMP SHIFT FACTOR .2423

CALIBRATING ROD .05 DIVIDED BY # LINES 31 = CHART CALIB FACTOR .0016

OTHER 10 GALLONS ADDED AT 09:00 TO OVERFILL TANK FOR TEST

TIME	TEST HEIGHT	CHART #'S		GAIN LOSS	CHART FACTR	LEVEL RESLT	TEMP STRT	TEMP END	GAIN LOSS	TEMP FACTR	TEMP RESULT	15 MIN RESULT IN GAL	HOURLY RESULT GAL/HR
10:45	+52"	37	20	-17	.0016	-.0272	.320	.320	0	.2423	0	-.0272	
11:00	+52"	75	67	-8		-.0128	.320	.318	-.002		-.0005	-.0123	
11:15	+52"	X	X			X	.318	.316	-.002		-.0005	X	
11:30	+52	48	41	-7		-.0112	.316	.312	-.004		-.0010	-.0102	
11:45	+52"	41	36	-5		-.0080	.312	.308	-.004		-.0010	-.0070	
12:00	+52"	36	32	-4		-.0064	.308	.304	-.004		-.0010	-.0054	
12:15	+52"	32	27	-5		-.0080	.304	.300	-.004		-.0010	-.0070	-.0296
12:30	+52"	27	23	-4		-.0064	.300	.297	-.003		-.0007	-.0057	-.0251
12:45	+52	23	20	-3		-.0048	.297	.293	-.004		-.0010	-.0038	-.0219

RESULTS CERTIFIED TIGHT YES AT TEST HEIGHT OF +52" LOSS RATE (GPH) -.0219+(+/-)

TESTED BY 
JACK A. WURTS

COMMENTS

THE DATA FOR THIS TEST MEETS NFPA 329 STANDARDS. THE EQUIPMENT USED TO GENERATE THIS DATA IS ABLE TO DETECT A PRODUCT LOSS AT THE RATE OF 0.05 GALLONS PER HOUR. THIS IS NOT TO BE CONSTRUED AS AN ALLOWABLE LEAK RATE, BUT RATHER AS AN ACCURACY TOLERANCE OF THE TESTING EQUIPMENT WHICH ALLOWS FOR THE MANY VARIABLES INVOLVED. TAT GUARANTEES ONLY THAT THE DATA FOR THIS REPORT MEETS NFPA CRITERIA ON THE DAY OF THIS TEST, TAT MAKES NO WARRANTY OF TANK AND/OR LINE FITNESS NOR DO WE ASSUME RESPONSIBILITY FOR ANY LEAKAGE WHICH MAY HAVE OCCURRED AS A RESULT OF THIS TEST.

TESTING AND TECHNOLOGY

TEST REPORT HORNER 'EZY CHEK' LEAK DETECTOR

COMPANY JERRY WILKINSON CORP. DATE 3/17/88 INVOICE 2234 TANK # 6

PRODUCT WASTE CAPACITY 1,000 MEASURED API 27.5 TEMPERATURE 62.5

ADJUSTED API 27.3 COEF OF EXPANSION .0004350 TEMP SHIFT FACTOR .43450

CALIBRATING ROD .05 DIVIDED BY # LINES 22 = CHART CALIB FACTOR .0023

OTHER 9 GALLONS ADDED AT 13:00 TO OVERFILL TANK FOR TEST

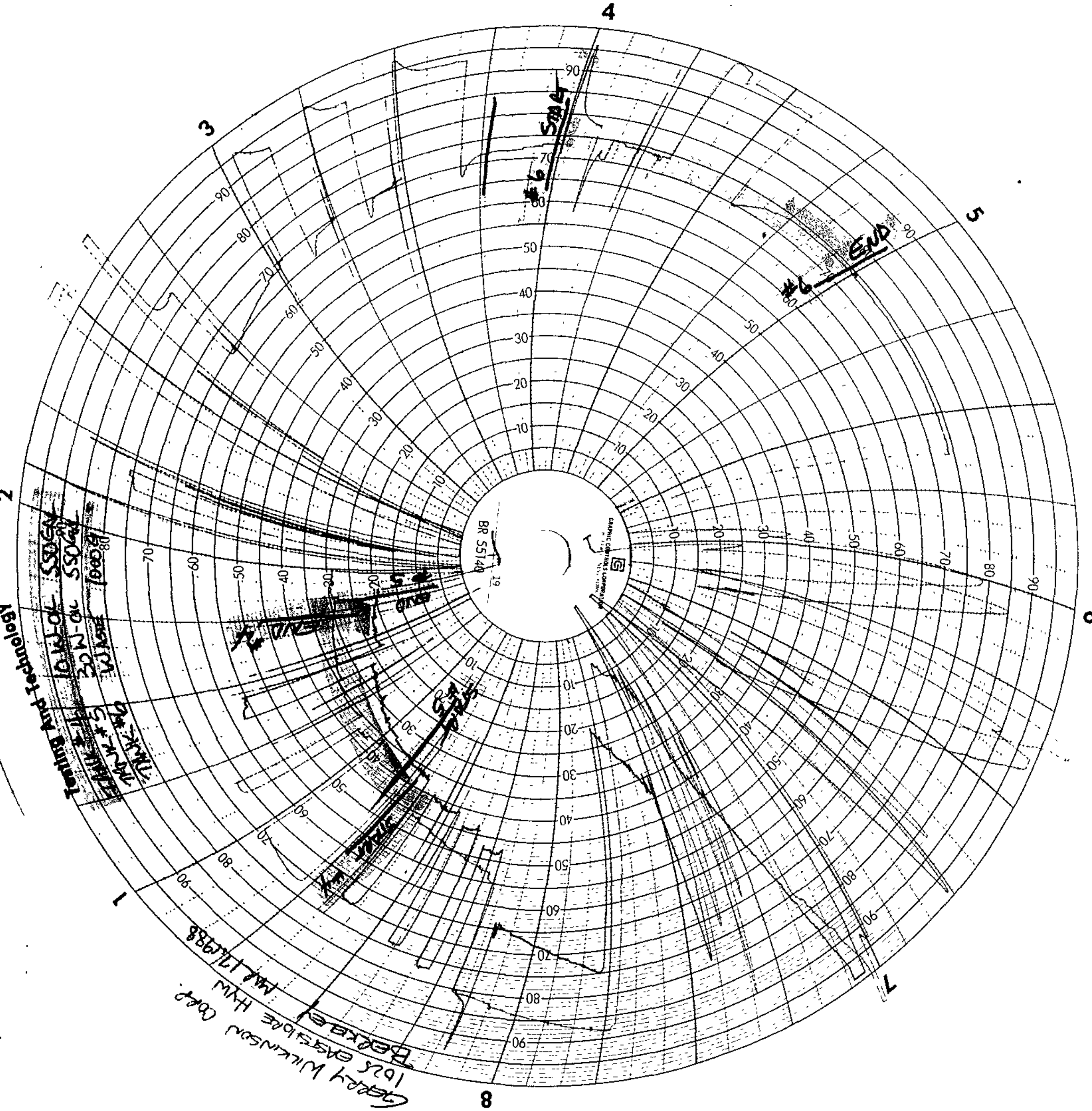
TIME	TEST HEIGHT	CHART #'S	GAIN LOSS	CHART FACTR	LEVEL RESLT	TEMP STRT	TEMP END	GAIN LOSS	TEMP FACTR	TEMP RESULT	15 MIN RESULT IN GAL	HOURLY RESULT GAL/HR
14:00	+47"	64 69	+5	.0023	+.0115	.223	.228	+.005	.4345	+.0022	+.0093	
14:15	+47"	69 70	+1		+.0023	.228	.226	-.002		-.0009	+.0031	
14:30	+47"	70 71	+1		+.0023	.226	.222	-.004		-.0017	+.0040	
14:45	+47"	71 72	+1		+.0023	.222	.216	-.004		-.0017	+.0040	+.0204
15:00	+47"	72 73	+1		+.0023	.216	.211	-.005		-.0022	+.0045	+.0156
15:15	+47"	73 74	+1		+.0023	.211	.205	-.006		-.0026	+.0049	+.0174
15:30	+47"	74 74	0		0	.205	.199	-.006		-.0026	+.0026	+.0160
15:45	+47"	74 74	0		0	.199	.194	-.005		-.0022	+.0022	+.0142
16:00	+47"	74 74	0		0	.194	.190	-.004		-.0017	+.0017	+.0114

RESULTS CERTIFIED TIGHT YES AT TEST HEIGHT OF +47 LOSS RATE (GPH) +.0114 (+/-)

TESTED BY JACK A. WURTS

COMMENTS

THE DATA FOR THIS TEST MEETS NFPA 329 STANDARDS. THE EQUIPMENT USED TO GENERATE THIS DATA IS ABLE TO DETECT A PRODUCT LOSS AT THE RATE OF 0.05 GALLONS PER HOUR. THIS IS NOT TO BE CONSTRUED AS AN ALLOWABLE LEAK RATE, BUT RATHER AS AN ACCURACY TOLERANCE OF THE TESTING EQUIPMENT WHICH ALLOWS FOR THE MANY VARIABLES INVOLVED. TAT GUARANTEES ONLY THAT THE DATA FOR THIS REPORT MEETS NFPA CRITERIA ON THE DAY OF THIS TEST, TAT MAKES NO WARRANTY OF TANK AND/OR LINE FITNESS NOR DO WE ASSUME RESPONSIBILITY FOR ANY LEAKAGE WHICH MAY HAVE OCCURRED AS A RESULT OF THIS TEST.



Testing And Technology
#6 START
#6 END
BR 55140

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APR 05 1988
ENVIRONMENTAL HEALTH

862-5511

RECEIVED
APR 13 1988

File

Data Chart for Tank System Tightness Test

petro tite
TANK TESTER

PLEASE PRINT

1. OWNER Property ☒ Tank(s) ☒

Name	Address	Representative	Telephone
WILKINSON EQUIP	1025 EASTSHORE HWY BERKELEY	WAYNE	527-1780
Name	Address	Representative	Telephone

2. OPERATOR

Name	Address	Telephone
SAME		

3. REASON FOR TEST (Explain Fully)

ANNUAL COMPLIANCE WITH CALIFORNIA UNDERGROUND TANK LAW

4. WHO REQUESTED TEST AND WHEN

Name	Title	Company or Affiliation	Date

Address: _____ Telephone: _____

5. WHO IS PAYING FOR THIS TEST?

Company, Agency or Individual: _____ Person Authorizing: _____ Title: _____ Telephone: _____

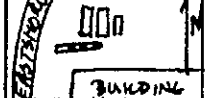
Billing Address: _____ City: _____ State: _____ Zip: _____

Attention of: _____ Order No.: _____ Other Instructions: _____

6. TANK(S) INVOLVED

Identify by Direction	Capacity	Brand/Supplier	Grade	Approx. Age	Steel/Fiberglass
EAST	8,000	ARCO	DIESEL	6-7 YRS	STEEL
WEST	8,000	ARCO	REG	6-7 YRS	STEEL
WEST #2	4,000	ARCO	U.L.	6-7 YRS	STEEL

7. INSTALLATION DATA

Location: 

North inside driveway. Rear of station, etc.

Cover	Fills	Vents	Siphones	Pumps
CONCRETE	4"	2"	NONE	SUCTION
Concrete, Black Top, Earth, etc.	Size, Fillfill make, Drop tubes, Remote Fills	Size, Manifolded	Which tanks?	Suction, Remote, Make if known

8. UNDERGROUND WATER

Depth to the Water table 3 ft" Is the water over the tank? ☒ Yes ☐ No

9. FILL-UP ARRANGEMENTS

Tanks to be filled _____ hr. _____ Date Arranged by _____ Name _____ Telephone

Extra product to "top off" and run TSTT. How and who to provide? Consider NO Lead.

Terminal or other contact for notice or inquiry _____ Company _____ Name _____ Telephone

10. CONTRACTOR, MECHANICS, any other contractor involved

138 - 36 = 102" water → 3.6 psi due to ground water

~~Reg: 7.6/.026 = 292" - 138 = 154" above grade to 12" mark~~

Diesel: 7.6/.031 = 245" - 137 = 108" above grade to 12" mark

11. OTHER INFORMATION OR REMARKS

Unl: 119 - 36 = 83" water → 2.9 psi due to ground water

6.9/.026 = 265 - 119 = 146" above grade to 12" mark.

Additional information on any items above. Officials or others to be advised when testing is in progress or completed. Visitors or observers present during test etc.

12. TEST RESULTS

Tests were made on the above tank systems in accordance with test procedures prescribed for petro tite as detailed on attached test charts with results as follows:

Tank Identification	Tight	Leakage Indicated	Date Tested
EAST	TIGHT	-.040 GPH	3-17-88
WEST	TIGHT	+.018 GPH	3-17-88
WEST #2	TIGHT	-.033 GPH	3-17-88

13. CERTIFICATION

3-17-88
Date

#1720, #2017

This is to certify that these tank systems were tested on the date(s) shown. Those indicated as "Tight" meet the criteria established by the National Fire Protection Association Pamphlet 329.

Peter Timmerman
Typed or Printed

Bay Area Tank Testing
Testing Contractor or Company

2051 N. Main St., Walnut Creek, CA 94596
Address

By Signature

14. WILKINSON [redacted]P — Name of Supplier, Owner or Dealer
1025 EASTSHORE HWY — Address: No. and Street(s)
[redacted]ELEY — City
CA — State
3/17/88 — Date of Test

petro tite TANK TESTER

15. TANK TO TEST
WEST — Identity by position
REG GAS — Brand and Grade

16. CAPACITY
Nominal Capacity 8000 Gallons
By most accurate capacity chart available 7896 Gallons
Is there doubt as to True Capacity? [ ]
See Section "DETERMINING TANK CAPACITY"

From
[ ] Station Chart
[ ] Tank Manufacturer's Chart
[ ] Company Engineering Data
[ ] Charts supplied with petro tite
[ ] Other

17. FILL-UP FOR TEST

	Stick Readings to ⅛ in	Gallons	Total Gallons as Reading
Stick Water Bottom before Fill-up: 0 to ⅛ in. — Gallons			
Inventory			7896
	TOPOFF		20
Product in full tank (up to fill pipe)			7916

Fill up. STICK BEFORE AND AFTER EACH COMPARTMENT DROP OR EACH METERED DELIVERY QUANTITY

Tank Diameter 94"

18. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK
See manual sections applicable. Check below and record procedure in log (28)
[ ] Water in tank [ ] High water table in tank excavation [ ] Line(s) being tested with LVLLT

VAPOR RECOVERY SYSTEM
[✓] Stage I
[✓] Stage II

HEATH CONSULTANTS
100 TOSCA DRIVE
P.O. BOX CS-200
STOUGHTON, MA 02072-1501
(617) 344-1400

19. TANK MEASUREMENTS FOR TSTT ASSEMBLY
Bottom of tank to Grade* .... 138"
Add 30" for 4" L .... "
Add 24" for 3" L or air seal .... "
Total tubing to assemble Approximate .... "

20. EXTENSION HOSE SETTING
Tank top to grade* 44"
Extend hose on suction tube 6" or more below tank top .... "

*If Fill pipe extends above grade use top of fill

21. TEMPERATURE/VOLUME FACTOR (a) TO TEST THIS TANK
Is Today Warmer? [ ] Colder? [ ] ___°F Product in Tank ___°F Fill-up Product on Truck ___°F Expected Change (+ or −)

API 57.8
TEMP = 62

22. Thermal-Sensor reading after circulation 13660 digits 64 °F Nearest

23. Digits per °F in range of expected change 325 digits

24. 7916 (total quantity in full tank (16 or 17)) × 0.0006729 (coefficient of expansion for involved product) = 5.3266764 (volume change in this tank per °F) gallons

25. 5.3266764 (volume change per °F (24)) ÷ 325 (Digits per °F in test Range (23)) = 0.0163897 (Volume change per digit. Compute to 4 decimal places) This is test factor (a)

26. 27. Time (24 hr.)	28. LOG OF TEST PROCEDURES — Record details of setting up and running test (Use full length of line if needed)	29. Reading No.	30. Hydrostatic Pressure Control — Standpipe Level in Inches: Beginning of Reading	Level to which Restored	31. Volume Measurements (V) Record to .001 Gal. — 32. Product in Graduate: Before Reading	After Reading	Product Replaced (−) / Product Recovered (+)	34. Temperature Compensation Use Factor (a) — 35. Thermal Sensor Reading	36. Change Higher + Lower − (c)	37. Computation (c) × (a) = Expansion + Contraction −	38. Net Volume Changes Each Reading — Temperature Adjustment: Volume Minus Expansion (+) or Contraction (−) #33(V) − #37(T)	39. Accumulated Change — At High Level record Total Lbs Deflection / At Low Level compute Change per Hour (NFPA criteria)
09:05	Arrived Job site											
[illegible]	START RECIRCULATION											
[illegible]	START HIGH LEVEL	1		42				13660		.0163		
10:00	HIGH LEVEL	2	34.1	42	.385	.010	-.375	666	+6	+.098	-.473	
10:15		3	37.7	42	.820	.590	-.230	N/C	N/C	N/C	-.230	
10:30	"	4	39.3	42	.590	.470	-.120	N/C	N/C	N/C	-.120	
10:45	"	5	39.8	42	.470	.380	-.090	N/C	N/C	N/C	-.090	
11:00	"	6	40.4	42	.380	.315	-.065	N/C	N/C	N/C	-.065	
11:15	"	7	40.4	42	.315	.250	-.065	N/C	N/C	N/C	-.065	
11:30	"	8	40.9	42	.250	.195	-.055	N/C	N/C	N/C	-.055	
	START LOW LEVEL			12								
11:45	LOW LEVEL	1	20.9	12	.115	.605	+.490	667	+1	+.016	+.474	
12:00	" "	2	13.1	12	.605	.655	+.050	669	+2	+.033	+.017	+.017
[illegible]	" "	3	12.6	12	.655	.675	+.020	671	+2	+.033	-.013	+.004
[illegible]	" "	4	12.4	12	.675	.690	+.015	N/C	N/C	N/C	+.015	+.019
[illegible]	" "	5	12.3	12	.690	.705	+.015	672	+1	+.016	-.001	+.018
											SYSTEM	TIGHT

~~The criteria established of +/- .050 gallon/hour is a mathematical calculation based on actual liquid volume change and temperature change, and is not intended as permission of a leak~~

~~Peter Timmerman #414812065~~
~~Bay Area Tank Testing~~
~~Walnut Creek, CA~~

14. WILKINSON E[illegible]IP 1025 EASTSHORE HWY, B[illegible]ELEY, CA 3/17/88
Name of Supplier, Owner or Dealer — Address No. and Street(s) — City — State — Date of Test

Petro Tite TANK TESTER

15. TANK TO TEST
EAST — Identify by position
Diesel — Brand and Grade

16. CAPACITY
Nominal Capacity 8000 Gallons
By most accurate capacity chart available 7896 Gallons
Is there doubt as to True Capacity? ☐
See Section "DETERMINING TANK CAPACITY"

From
☐ Station Chart
☒ Tank Manufacturer's Chart
☐ Company Engineering Data
☐ Charts supplied with Petro Tite
☐ Other ______

17. FILL-UP FOR TEST

Stick Water Bottom before Fill-up Ø (1/8 in.) ______ Gallons

	Stick Readings to 1/8 in	Gallons	Total Gallons ea. Reading
Inventory			7896
	TOP OFF		15
Product in full tank (up to fill pipe)			7911

Fill up STICK BEFORE AND AFTER EACH COMPARTMENT DROP OR EACH METERED DELIVERY QUANTITY

Tank Diameter 95"

18. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK
See manual sections applicable. Check below and record procedure in log (26)
☐ Water in tank ☐ High water table in tank excavation ☐ Line(s) being tested with LVLLT

VAPOR RECOVERY SYSTEM
☐ Stage I
☐ Stage II

HEATH CONSULTANTS
100 TOSCA DRIVE
P.O. BOX CS-200
STOUGHTON, MA 02072-1591
(617) 344-1400

19. TANK MEASUREMENTS FOR TSTT ASSEMBLY
Bottom of tank to Grade* 137"
Add 30" for 4" L ______"
Add 24" for 3" L or air seal ______"
Total tubing to assemble Approximate ______"

20. EXTENSION HOSE SETTING
Tank top to grade* 41"
Extend hose on suction tube 6" or more below tank top ______"
*If Fill pipe extends above grade, use top of fill

21. TEMPERATURE/VOLUME FACTOR (s) TO TEST THIS TANK
Is Today Warmer? ( ) Colder? ( ) ___°F Product in Tank ___°F Fill up Product on Truck ___°F Expected Change (+ or -)

22. Thermal-Sensor reading after circulation 12807 digits 61 Nearest °F — API = 32.6 TEMP 61

23. Digits per °F in range of expected change 322 digits

24. 7911 (total quantity in full tank (16 or 17)) × 0.0004535 (coefficient of expansion for involved product) = 3.5876385 gallons (volume change in this tank per °F)

25. 3.5876385 (volume change per °F (24)) ÷ 322 (Digits per °F in test Range (23)) = 0.0111417 (Volume change per digit. Compute to 4 decimal places) This is test factor (s)

26. LOG OF TEST PROCEDURES

27. Time (24 hr)	28. Record details of setting up and running test (Use full length of line if needed)	29. Reading No.	30. Hydrostatic Pressure Control: Standpipe Level in inches — Beginning of Reading	Level to which Restored	31./32. Volume Measurements (Y), Product in Graduate — Before Reading	After Reading	Product Replaced (−) / Product Recovered (+)	34./35. Temperature Compensation — Thermal Sensor Reading	36. Change Higher + Lower − (s)	37. Computation (c) × (s) = Expansion + Contraction −	38. Net Volume Changes Each Reading: Temperature Adjustment, Volume Minus Expansion (+) or Contraction (−) #33(Y) − #37(T)	39. Accumulated Change
07:05	Arrive Job site											
07:15	START RECIRCULATION											
10:30	START HIGH LEVEL TEST	1		42				807		.011		
10:45	HIGH LEVEL	2	40.8	42	.580	.540	-.040	809	+2	+.022	-.062	
11:00	" "	3	40.7	42	.540	.495	-.045	N/C	N/C	N/C	-.045	
11:15	" "	4	40.6	42	.495	.440	-.055	813	+4	+.044	-.099	
11:30	" "	5	40.8	42	.440	.395	-.045	N/C	N/C	N/C	-.045	
11:45	" "	6	40.9	42	.395	.355	-.040	815	+2	+.022	-.062	
12:00	" "	7	41.0	42	.355	.315	-.040	N/C	N/C	N/C	-.040	
12:15	" "	8	41.0	42	.315	.275	-.040	N/C	N/C	N/C	-.040	
	START LOW LEVEL			12								
12:30	LOW LEVEL	1	11.8	12	.275	.265	-.010	822	+7	+.078	-.088	
12:45	" "	2	11.8	12	.265	.250	-.015	N/C	N/C	N/C	-.015	-.015
13:00	" "	3	12.0	12	.250	.250	N/C	N/C	N/C	N/C	.000	-.015
13:15	" "	4	11.8	12	.250	.235	-.015	N/C	N/C	N/C	-.015	-.030
13:30	" "	5	11.9	12	.235	.225	-.010	N/C	N/C	N/C	-.010	-.040
											SYSTEM	TIGHT

The criteria established of +/- .050 gallon/hour is a mathematical calculation based on actual liquid volume change and temperature change, and is not intended as permission of a leak

Peter Timmerman #414812065
Bay Area Tank Testing
Walnut Creek, CA

14. WILKINSON EQUIP. | 1025 EASTSHORE HWY | BERKELEY | CA | 3/17/88
Name of Supplier Owner or Dealer | Address No and Street(s) | City | State | Date of Test

petro Tite TANK TESTER

15. TANK TO TEST
West #2 — Identity by position
U/L — Brand and Grade

16. CAPACITY
Nominal Capacity 4000 Gallons
By most accurate capacity chart available 4019 Gallons
Is there doubt as to True Capacity? ☐
See Section "DETERMINING TANK CAPACITY"
From
☐ Station Chart
☑ Tank Manufacturer's Chart
☐ Company Engineering Data
☐ Charts supplied with petro Tite
☐ Other

17. FILL-UP FOR TEST

	Stick Readings to ⅛ in.	Gallons	Total Gallons ea. Reading
Stick Water Bottom before Fill-up 0 to ⅛ in. ____ Gallons	Inventory		4019
	TOPOFF		15
Tank Diameter 76"	Product in full tank (up to fill pipe)		4034

FILL up: STICK BEFORE AND AFTER EACH COMPARTMENT DROP OR EACH METERED DELIVERY QUANTITY

HEATH CONSULTANTS
100 TOSCA DRIVE
P.O. BOX CS-200
STOUGHTON, MA. 02072-1591
(617) 344-1400

18. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK
See manual sections applicable. Check below and record procedure in log (26).
☐ Water in tank ☐ High water table in tank excavation ☐ Line(s) being tested with LVLLT

VAPOR RECOVERY SYSTEM
☑ Stage I
☑ Stage II

19 TANK MEASUREMENTS FOR TSTT ASSEMBLY
Bottom of tank to Grade* 119"
Add 30" for 4" L 30"
Add 24" for 3" L or air seal 24"
Total tubing to assemble Approximate ____"

20. EXTENSION HOSE SETTING
Tank top to grade* 43"
Extend hose on suction tube 6" or more below tank top ____"
*If Fill pipe extends above grade, use top of fill

21. TEMPERATURE/VOLUME FACTOR (a) TO TEST THIS TANK
Is Today Warmer? ( ) Colder? ( ) ____°F Product in Tank ____°F Fill up Product on Truck ____°F Expected Change (+ or −)

22. Thermal-Sensor reading after circulation 13285 digits — 63 Nearest °F — APE = 57.4, TEMP: 67

23. Digits per °F in range of expected change 324 digits

24. 4034 (total quantity in full tank (18 or 17)) × 0.0006747 (coefficient of expansion for involved product) = 2.7217398 (volume change in this tank per °F) gallons

25. 2.7217398 (volume change per °F (24)) ÷ 324 (Digits per °F in test Range (23)) = 0.0084004 (Volume change per digit Compute to 4 decimal places.) This is test factor (a)

26. LOG OF TEST PROCEDURES			30. HYDROSTATIC PRESSURE CONTROL		31. VOLUME MEASUREMENTS (V) RECORD TO .001 GAL.			34 TEMPERATURE COMPENSATION USE FACTOR (a)			38. NET VOLUME CHANGES EACH READING	39. ACCUMULATED CHANGE
27. DATE / TIME (24 hr)	28. Record details of setting up and running test. (Use full length of line if needed.)	29. Reading No.	Standpipe Level in Inches: Beginning of Reading	Standpipe Level in Inches: Level to which Restored	32. Product in Graduate: Before Reading	Product in Graduate: After Reading	Product Replaced (−) Product Recovered (+)	35. Thermal Sensor Reading	36. Change Higher + Lower − (c)	37. Computation (c) × (a) = Expansion + Contraction −	Temperature Adjustment: Volume Minus Expansion (+) or Contraction (−) #33(V) − #37(T)	At High Level record Total End Definition; At Low Level compute Change per Hour (NFPA criteria)
07:05	Arrived Jobsite											
14:00	START RECIRCULATION											
14:30	START HIGH LEVEL TEST	1		42				13285		.0084		
14:45	HIGH LEVEL	2	38.2	42	.665	.550	-.115	.285	-2	+.017	-.132	
15:00	" "	3	37.8	42	.550	.335	-.215	N/C	N/C	N/C	-.215	
15:16	" "	4	35.0	42	.335	.205	-.130	.292	+9	+.076	-.206	
15:30	" "	5	40.4	42	.205	.135	-.070	.296	+3	+.025	-.096	
15:45	" "	6	41.2	42	.330	.295	-.035	.302	+7	+.059	-.0941	
	START LOW LEVEL TEST			42								
16:00	LOW LEVEL	1	16.5	42	.295	.525	+.230	.307	+5	+.042	+.188	
16:15	" "	2	13.2	42	.125	.170	+.045	.313	+6	+.050	-.005	-.005
16:30	" "	3	12.1	42	.170	.210	+.040	318	+5	+.042	-.002	-.007
16:45	" "	4	13.2	42	.210	.760	+.050	327	+9	+.076	-.026	-.033
17:00	" "	5	12.9	42	.760	.785	+.025	330	+3	+.025	.000	-.033
											SYSTEM	TIGHT

The criteria established of +/- .050 gallon/hour is a mathematical calculation based on actual liquid volume change and temperature change, and is not intended as permission of a leak

Peter Timmerman #414812065
Bay Area Tank Testing
Walnut Creek, CA