

**THRIFTY OIL CO.**

June 2, 1987

**RECEIVED**  
JUN 04 1987  
HAZARDOUS MATERIALS/  
WASTE PROGRAM

Alameda County Environmental  
Health Department  
470 27th Street  
Room #324  
Oakland, Ca. 94612

Dear Sir,

Enclosed please find the tank test results for the following locations:

<u>STATION #</u>	<u>LOCATION</u>
#54	2504 Castro Valley Blvd., Castro Valley, Ca.

If you have any further questions, please feel free to contact either Peter D'Amico or myself.

Thank you.

Sincerely,

*Trish Guzman*

Trish Guzman  
Environmental Affairs Coordinator

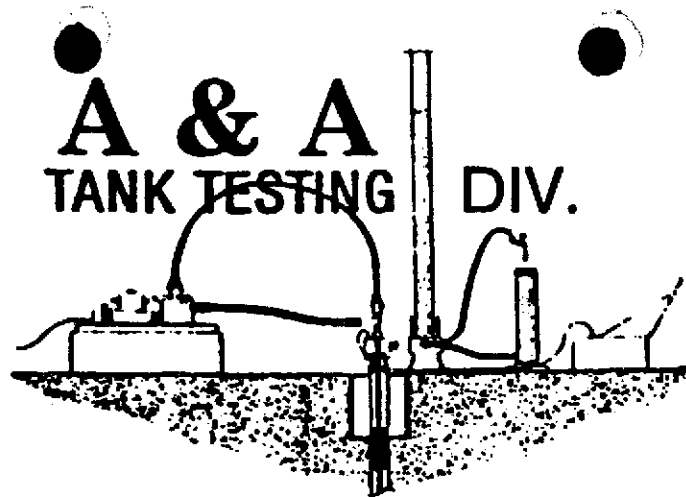


Alameda



# A & A TANK TESTING DIV.

5630 District Blvd. #103  
Bakersfield, CA 93313  
805/397-6555



December 16, 1986

Thrifty Oil Company  
10000 Lakewood Blvd.  
Downey, CA 90240

ATTN: Daisy Mosby

RE: # 54 2504 Castro Valley Blvd., Castro Valley, CA

On December 4, 1986, a Petro Tite System Test was performed at the above-referenced location. The test was performed by Mike Womack, A & A Technician, Certification #414811422. The NFPA code 329.02 criteria for a tight system is a maximum gain or loss of .05 gallons per hour. Because of the almost infinite variables involved, this is intended to be a mathematical tolerance and is not the permission of actual leakage.

During the stand-pipe procedure, the internal liquid hydrostatic pressure applied to the underground tank system is generally two to three times greater than normal liquid storage pressures. This increase in hydrostatic pressure will amplify the indicated rate of leak accordingly.

### SYSTEM TEST

TANK NO. 1 - South  
SIZE - 12,000 Gallons  
PRODUCT - Super Unleaded  
The test showed a leakage of +.031 Gallons Per Hour.  
Based on the above criteria, we find the system mathematically Tight.

TANK NO. 2 - Center  
SIZE - 12,000 Gallons  
PRODUCT - Regular  
The test showed a leakage of +.046 Gallons per hour.  
Based on the above criteria, we find the system mathematically Tight.

TANK NO. 3 - North  
SIZE - 12,000 Gallon  
PRODUCT - unleaded

The test showed a leakage of -.049 Gallons per hour.  
Based on the above criteria, we find the system mathematically  
Tight.

The test included 1 hour of Repair time to make repairs in the  
vapor recovery system at the island pumps.

This concludes our test and findings on December 4, 1986. If you  
have any questions regarding the results, please contact me. It  
is your responsibility to notify your local County Health  
Department, Environmental Health, within thirty (30) days of the  
results of this test. This notification is required by the  
California Administrative Code, Title 23 Waters, Chapter 3 Water  
Resources Control Board, Sub-chapter 16 Underground Tank  
Regulations, Article 4.30.

We have enjoyed working with you on this project. If you need  
any further information, please feel free to contact our office.

Sincerely,

John Ross  
Project Manager

Enclosure



# Data Chart for Tank System Tightness Test

## petro title TANK TESTER



1. OWNER <input type="checkbox"/> Property <input type="checkbox"/> Tank(s)	THRIFTY OIL COMPANY 10000 LAKEWOOD BLVD., DOWNEY, CA <small>Name Address</small> DAISY MOSBY, (213)923-9876 <small>Representative Telephone</small>					
2. OPERATOR	#54 2504 Castro Valley Blvd., Castro Valley, Ca <small>Name Address Telephone</small>					
3. REASON FOR TEST (Explain Fully)	FULL SYSTEM TIGHTNESS TEST.					
4. WHO REQUESTED TEST AND WHEN	DAISY MOSBY, THRIFTY OIL COMPANY <small>Name Address Telephone</small> 10000 LAKEWOOD BLVD., DOWNEY, CA 90240 (213)923-9876 <small>Company or Affiliation</small>					
5. WHO IS PAYING FOR THIS TEST?	THRIFTY OIL COMPANY, DAISY MOSBY (213)923-9876 <small>Company, Agency or Individual Name Address Telephone</small> 10000 LAKEWOOD BLVD., DOWNEY, CA 90240 <small>City State Zip</small> DAISY MOSBY H043 <small>Attention of: Order No. Other Instructions</small>					
6. TANK(S) INVOLVED	Identify by Direction	Capacity	Brand/Supplier	Grade	Approx. Age	Steel/Fiberglass
		12,000	Supervul			
		12,000	regular			
		12,000	Unleaded			
7. INSTALLATION DATA	Location	Cover	Fills	Vents	Siphones	Pumps
			4"			Remote
	<small>North inside driveway, Rear of station, etc.</small>	<small>Concrete, Black Top, Earth, etc.</small>	<small>Size, Triefilt make, Drop tubes, Remote Fills</small>	<small>Size, Manifolded</small>	<small>Which tanks?</small>	<small>Suction, Remote, Make if known</small>
8. UNDERGROUND WATER	Depth to the Water table _____" Is the water over the tank? <input type="checkbox"/> Yes <input type="checkbox"/> No					
9. FILL-UP ARRANGEMENTS	Tanks to be filled _____ hr. _____ Date Arranged by _____ <small>Name Telephone</small> Extra product to "top off" and run TSTT. How and who to provide? Consider NO Lead. Terminal or other contact for notice or inquiry _____ <small>Company Name Telephone</small>					
10. CONTRACTOR, MECHANICS, any other contractor involved						
11. OTHER INFORMATION OR REMARKS						
12. TEST RESULTS	Tests were made on the above tank systems in accordance with test procedures prescribed for <b>petro title</b> as detailed on attached test charts with results as follows: <small>DATE 11/22/86</small>					
	Tank Identification	Tight	Leakage Indicated	Date Tested		
	12K Super	YES	F.031	12-4-86		
	12K Regular	YES	F.046	✓		
	12K Unleaded	YES	- .049			
13. CERTIFICATION	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. Date <u>1347,1344,1252</u> <b>Mike Womack</b> 414811894 <small>Serial No. of Thermal Technicians</small> A & A TANK TESTING 5630 DISTRICT BLVD. SUITE 103 BAKERSFIELD, CA 93313 <small>Address</small> Signature <i>[Signature]</i>					

1) In Thrifty #54 PO# 14043 2504 Castro Valley + Stanton Castro Valley, CA

**15. TANK TO TEST**  
 #1 South E/W  
 Super Unbleached

**16. CAPACITY**  
 Nominal Capacity 12000 Gallons  
 By most accurate capacity chart available 11846 Gallons  
 Is there doubt as to True Capacity?   
 See Section "DETERMINING TANK CAPACITY"

- From 12/4/86
- 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 \_\_\_\_\_  
 in W in. Gallons  
 Tank Diameter 9'-1/4"  
 Product in full tank (w/upto fill pipe)

Stick Readings to W in. Gallons Total Gallons cc. Reading

99"		11846
Water		- 2
Top Off		+ 20
94"		11866

**18. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK** CBS API Gravity 56.6 Temp. 50  
 See manual sections applicable. Check below and record procedure in log (28).  
 Water in tank  
 High water table in tank excavation  
 Corr. API Gravity Line(s) being tested with LULL

57.8  
 VAPOR RECOVERY SYSTEM  
 Stage I  
 Stage II

**19. TANK MEASUREMENTS FOR TSTT ASSEMBLY**  
 Bottom of tank to grade 138  
 Add 30" for 4" L 20  
 Add 24" for 2" L or air seal 168  
 Total tubing to assemble (Approximate) 168  
**20. EXTENSION HOSE SETTING**  
 Tank top to grade 74  
 Extend hose on suction tube 6" or more 2  
 below tank top \_\_\_\_\_

**21. TEMPERATURE/VOLUME FACTORS TO TEST THIS TANK**  
 Is Today Warmer? Colder? \_\_\_\_\_ °F Product in Tank \_\_\_\_\_ °F Fill-up Product on Truck \_\_\_\_\_ °F Expected Change + or -  
 22. Thermit-Sensor reading after circulation 12524 60/61  
 23. Digits per °F in range of expected change 321  
 24. Total quantity in full tank (18 or 17) 11866 × coefficient of expansion for evolved product 0.0059778 = volume change in this tank per °F 7.0956306  
 25. Volume change per digit 321 = 7.0956306 / 321 = 0.2210976 This is test factor (28)

Petro-Tite  
 LANK ISIR

A & A Tank Testing  
 5630 District Blvd. #103

26. LIST OF TEST PROCEDURES

27. DATE

28. Record details of setting up and running test. (Use full length of line if needed.)

29. Timing No.

30. HYDROSTATIC PRESSURE CONTROL

31. VOLUME MEASUREMENTS (28) RECORD IN SET UP

32. Pressure in Gallons

33. Product Recovery (2-)

34. TEMPERATURE COMPENSATION USE FACTOR (28)

35. Thermal Sensor Reading

36. Change Higher + Lower - (H)

37. Compensation (28 + 36) = Expansion - Contraction -

38. NET VOLUME CHANGES EACH READING

39. ACCUMULATED CHANGE

Timing No.	Start	End	Pressure	Temp	Product	Factor	Net Change	Total
1	9:45	12:45	11.6	12	080	+190	601	+199
2	12:45	1:45	13.4	12	270	+140	610	+199
3	1:45	2:45	13.8	12	410	+50	612	+244
4	2:45	3:45	13.8	12	550	+85	618	+200
5	3:45	4:45	13.3	12	685	+125	624	+133

Drop to 12" low level test

Start low level test

Continued low level test

9:50  
 10:15  
 10:30  
 10:45  
 11:00  
 11:15  
 11:30

12:45  
 1:15  
 1:45  
 2:15  
 2:45

11.6  
 13.4  
 13.8  
 13.8  
 13.3

12  
 12  
 12  
 12  
 12

080  
 270  
 410  
 550  
 685

+190  
 +140  
 +50  
 +85  
 +125

601  
 610  
 612  
 618  
 624

+199  
 +199  
 +244  
 +200  
 +133

-009  
 -059  
 +037  
 +039  
 -004

T-S SER# 1252  
 Tech M Wagon X

(2) in The City #57 PO#14043 2501 Center Valley + Stanton Cystic Valley, CA

Name of Section Owner or Dealer Address No and Street City State

Serial No. 1219786  
 Section Chart  
 Tank Manufacturer's Chart  
 Company Engineering Data  
 Charts supplied with Petro-Tite  
 Other

15. TANK TO TEST  
#2 m. d. d. etc  
Regular  
Brand and Grade

16. CAPACITY  
 Nominal Capacity 12000  
 Capacity  
 Is there doubt as to True Capacity?   
 See Section "DETERMINING TANK CAPACITY"

By most accurate capacity chart available 11846 Gallons

17. FILL-UP FOR TEST  
 Stick Water Bottom before Fill-up 0 0  
to No. in. Gallons

Stick Readings to No. in. Gallons Total Gallons as Reading  
94" Water 11846  
7200FF - 0 11846  
94" 11866

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

Tank Diameter 94" Product in full tank (w/ up fill pipe)

18. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK CBS API Gravity 57.6 Temp. 57

See manual sections applicable. Check below and record procedure in log (28).  
 Water in tank  High water table in tank excavation  Corr. API Gravity 58.7  
Line(s) being tested with LVLCT

VAPOR RECOVERY SYSTEM  
 Stage 1  
 Stage 2

19. TANK MEASUREMENTS FOR TSTT ASSEMBLY  
 Bottom of tank to Grade 138  
 Add 30" for 4" L. 70  
 Add 24" for 2" L or air seal  
 Total tubing to assemble Approximate 168

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

21. TEMPERATURE/VOLUME FACTOR 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 12733 6162 Hours  
 23. Digits per °F in range of expected change 322  
 24. Total quantity in full tank (16 or 17) 11866 x coefficient of expansion for evolved product 0.0060437 = volume change in this tank per °F 7.1714544 gallons  
 25. 7.1714544 ÷ Digits per °F in test Range (23) 322 = Volume change per digit .02227159 This is test factor

\* If fill pipe extends above grade, use top of fill.

27. TIME (to 1/10)	28. Record details of setting up and running test. (Use full length of line if needed.)	29. Immerse Level in liquid		30. HYDROSTATIC PRESSURE CONTRA			31. VOLUME MEASUREMENT IN DECIMAL IN 101 GAL.			32. RELATIVE COMPENSATION USE FACTOR (M)			33. NET VOLUME CHANGES EACH READING		34. ACCUMULATE CHANGE
		Reading No.	Beginning of Reading	Level to which Returned	Before Reading	After Reading	Product Recovered (%)	Thermal Sensor Reading	Change Higher + Lower - (M)	Compensation (+) or Expansion - (-)	Temperature Adjustment	Vapor Loss Compensation (+) or Compensation (-) = 2200(-) = 2175(+)			
	Arrive Test Location														
	Measure for water/tank bottom														
	Remove fill cap adaptor														
	Transport to/off tanks into fill pipe														
	Set up test equipment														
	Fill test equip. w/product														
	Pump primed & running 9:30														
	1st Sensor Reading					42						12733			
	Start Hi level test 9:45	1	31.0	42	605	600	-65	738	+5	1.112	-717				
	Continued Hi level test 10:00	2	32.4	42	910	605	-355	749	+11	1.245	-600				
		3	40.5	42	605	490	-115	755	+6	1.134	-249				
		4	41.3	42	490	450	-40	760	+5	1.112	-152				
		5	42.0	42	450	450	0	765	+5	1.112	-112				
		6	42.3	42	450	480	+30	770	+5	1.112	-70				
		7	43.0	42	480	550	+70	776	+6	1.134	-64				
		8	43.1	42	550	625	+75	778	+2	1.045	-830				
		9		42											
		10		42											
		11		42											
		12		42											
	Drop to 12" low level test			12								778			
	Start low level test 11:45	1	14.4	12	030	210	+180	794	+6	1.134	+046				
	Continued low level test 12:00	2	13.6	12	210	320	+110	798	+4	1.089	+021	+021			
		3	13.5	12	320	425	+105	792	+4	1.089	+016	+037			
		4	13.5	12	425	530	+105	798	+6	1.134	-029	+008			
		5	13.6	12	530	635	+105	801	+3	1.067	+038	+046			
	T-S SER# 1341														
	Tech M. Villalobos														

System Tight at 12046 gpm

A & A Tank Testing  
 5630 District Blvd. #103  
 Bakersfield, Calif. 93313

Petro-Tite  
 TANK TESTER

Petro-Tite  
TANK TESTER

15. TANK TO TEST  
#3 NORTH E/W  
UNLEADED

16. CAPACITY  
Nominal Capacity 12,000  
By most accurate capacity chart available 11,846  
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  
Sticks Water Bottoms before fill-up to 1/2 in.  to 1/2 in.   
Fill up STICK BEFORE AND AFTER EACH COMPARTMENT DROP OR EACH METERED DELIVERY QUANTITY  
Tank Diameter 94" Product in full tank (up to fill pipe)

Stick Readings to 1/2 in. Gallons Total Gallons ee. Reading  
Inventory 94" 11846  
WATER 0  
TOP OFF +20  
94" 11866

18. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK CBS API Gravity 56.6 Temp. 52° VAPOR RECOVERY SYSTEM  
See manual sections applicable. Check below and record procedure in log (28).  
 Water in tank  High water table in tank excavation  Corr. API Gravity  Line(s) being tested with LVLLT  
 Stage I  Stage II

19. TANK MEASUREMENTS FOR TSTT ASSEMBLY  
Bottom of tank to grade\* 138  
Add 30" for 4" L 30  
Add 24" for 3" L or air seal  
Total tubing to assemble Approximate 168  
20. EXTENSION HOSE SETTING  
Tank top to grade\* 44  
Extend hose on suction tube 8" or more below tank top 0  
\*If fill pipe extends above grade, use top of fill.

21. TEMPERATURE/VOLUME FACTOR (A) TO TEST THIS TANK  
Is Today Warmer? Colder?  Product in Tank  Fill up Product on Truck  Expected Change  - or -  
22. Thermal-Sensor reading after circulation 11991 58/59  
23. Digits per "F" in range of expected change 318  
24. 11866 x .00059656 = 7.0787809 gallons  
total quantity in full tank (16 or 17) coefficient of expansion for involved product volume change in this tank per "F"  
25. 7.0787809 + 318 = .02226031  
volume change per "F" (24) Digits per "F" in test Range (23) Volume change per digit. Compute to 4 decimal places. This is test factor (A)

A & A Tank Testing  
5630 District Blvd. #103  
Bakersfield, Calif. 93313

26. LOGS OF TEST PROCEDURES		29. STATION LEVEL IN INCHES		31. VOLUME MEASUREMENTS IN RECORD TO SET S.M.			34. TEMPERATURE COMPENSATION USE FACTOR (A)			38. NET VOLUME CHANGES EACH READING		39. ACCUMULATED CHANGE			
TIME (24 hr)	27. S.M. (24 hr)	28. Record details of setting up and running test. (Use full length of line if needed.)	Beginning of Reading	Level to which Reduced	Before Reading	After Reading	Product Replaced (-)	Product Recovered (+)	Thermal Sensor Reading	Change Higher = Lower = (A)	Correction (C) = (A) + Expansion = Contraction =	Temperature Adjustment	Volume Measured Expansion (-) + Contraction (-) + (C) (T)	At High Level record Total Test Balance	At Low Level record Change per Hour (MPH) internal
		Arrive Test Location													
		Measure for water/tank bottom													
		Remove fill cap adaptor													
		Transport toffoff tanks into fill pipe													
		Set up test equipment													
		Fill test equip. w/product													
		Pump primed & running													
		1st Sensor Reading		42					11991						
9 45		Start Hi level test	1	35.0	42	1.000	.340	-.660	971	-20	-.446	-.214			
10 00		Continued Hi level test	2	35.4	42	.990	.450	-.540	006	+35	+781	-1.321			
10 15			3	39.8	42	.450	.260	-.190	011	+5	+112	-.302			
10 30			4	40.4	42	.260	.130	-.130	015	+4	+089	-.219			
10 45			5	40.9	42	.130	.050	-.080	021	+6	+134	-.214			
11 00			6	41.0	42	.050	.000	-.050	023	+2	+045	-.095			
11 15			7	41.2	42	.360	.300	-.060	032	+9	+201	-.261			
11 30			8	41.2	42	.300	.240	-.060	040	+8	+178	-.238			
			9		42										
			10		42										
			11		42										
			12		42										
		Drop to 12" low level test			12				040						
11 45		Start low level test	1	12.4	12	.100	.140	+040	045	+5	+112	-.072			
12 00		Continued low level test	2	12.4	12	.140	.180	+040	047	+2	+045	-.005	-.005		
12 15			3	12.3	12	.180	.210	+030	050	+3	+067	-.037	-.042		
12 30			4	12.4	12	.210	.250	+040	051	+1	+022	+018	-.024		
12 45			5	12.2	12	.250	.270	+020	053	+2	+045	-.025	-.049		
		T-S SER#1347													
		Tech <i>m/Sack</i>													
		CEB# 41481635													

SYSTEM TIGHT AT +.049 G.P.H.