

HEALTH EXAMINETICS, INC.

Health Testing Services
709 Westchester Avenue, White Plains, NY 10604 • (914) 997-8888

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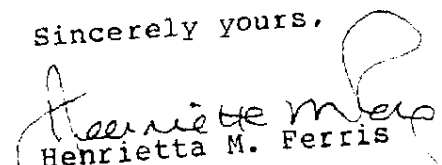
November 11. 1983

Mr. James Hall
Conoco Chemicals Company
P.O. Box 19029
Houston, TX 77724

Dear Mr. Hall:

Enclosed please find the statistical summary from VCM
special program May - July 1983.

Sincerely yours,


Henrietta M. Ferris

HMF/jd

Enclosures

VVC 000014185



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TESTING PROGRAM ANALYSIS

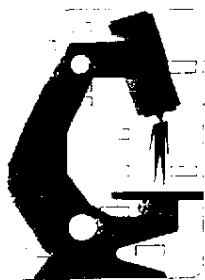
CONOCO CHEMICALS COMPANY - VCM PLANT

WESTLAKE, LOUISIANA : MAY - JULY 1983

SUMMARY

TOTAL PEOPLE TESTED (MEAN AGE = 42.3)	126
FEMALE (MEAN AGE = 35.6)	7
MALE (MEAN AGE = 42.7)	119
 TOTAL POTENTIAL ABNORMALITIES	403
TOTAL NUMBER OF TESTS ADMINISTERED	2642
AVERAGE POTENTIAL ABNORMALITIES PER PERSON	6.4
** AVERAGE POTENTIAL ABNORMALITIES PER PERSON IN REFERENCE POPULATION	5.4

** THE REFERENCE POPULATION IS AN AGE AND SEX STRATIFIED
SAMPLE SELECTED FROM AN AMBULATORY POPULATION.

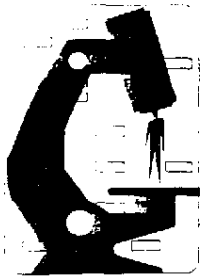


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SUMMARY OF POTENTIAL ABNORMALITIES

GROUP I	- INDIVIDUALS WHOSE COMPLETED TESTS INDICATE NO APPARENT ABNORMALITIES.	3
GROUP II	- INDIVIDUALS WHOSE COMPLETED TESTS INDICATE AN APPARENT ABNORMALITY OR ABNORMALITIES IN: 1. AUDIOLOGY 2. VISION	12
GROUP III	- INDIVIDUALS WHOSE COMPLETED TESTS INDICATE AN APPARENT ABNORMALITY OR ABNORMALITIES OTHER THAN OR IN ADDITION TO: 1. AUDIOLOGY 2. VISION	104

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STATISTICAL COMPARISON SUMMARY

THE FOLLOWING TESTS WERE FOUND TO HAVE STATISTICALLY HIGHER PERCENTAGES OF POTENTIAL ABNORMALITIES THAN THE REFERENCE POPULATION (SIGNIFICANCE TESTED AT THE 95% CONFIDENCE LEVEL):

VISUAL/AUDIOMETRIC:
AUDIO HIGH FREQ.

PULMONARY:
FEV1

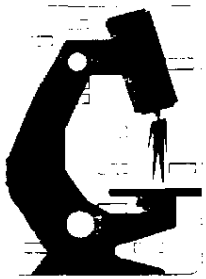
CARDIOVASCULAR:
BP DIASTOLIC

THE FOLLOWING TESTS WERE FOUND TO HAVE STATISTICALLY LOWER PERCENTAGES:

PULMONARY:
FVC

HEMATOLOGY:
PLATELETS

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DETAILS OF POTENTIAL ABNORMALITIES

TEST	NUMBER TESTED	NUMBER ABNORMAL	PERCENT ABNORMAL	REFERENCE POPULATION
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VISION

ACUITY, NEAR AND FAR - TO DETECT THE NEED FOR VISUAL CORRECTION.

FAR LEFT	125	12	9.6
FAR RIGHT	126	15	11.9
FAR BOTH	126	3	2.4
NEAR LEFT	125	23	18.4
NEAR RIGHT	126	28	22.2
NEAR BOTH	126	17	13.5

PHORIA - TO DETECT EYE MUSCLE IMBALANCE.

FAR VERTICAL	125	0	.0
FAR LATERAL	125	10	8.0

COLOR - TO DETECT COLOR-BLINDNESS.	126	3	2.4
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TEST	NUMBER TESTED	NUMBER ABNORMAL	PERCENT ABNORMAL	REFERENCE POPULATION
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ACUIMETRY - TO DETECT HEARING LOSS.

RIGHT EAR

500 HZ	125	3	2.4	6.5
1000 HZ	125	5	4.0	4.9
2000 HZ	125	14	11.2	10.8
3000 HZ	125	42	33.6	30.4
4000 HZ	125	67	53.6	42.6
6000 HZ	125	69	55.2	51.5

LEFT EAR

500 HZ	125	5	4.0	7.4
1000 HZ	125	6	4.8	5.6
2000 HZ	125	17	13.6	13.3
3000 HZ	125	56	44.8	35.8
4000 HZ	125	74	59.2	48.7
6000 HZ	125	75	60.0	62.5

PULMONARY

PULMONARY FUNCTION

FORCED VITAL CAPACITY (FVC) - TO DETECT CHRONIC RESTRICTIVE LUNG DISEASE.

120	1	.8	6.7
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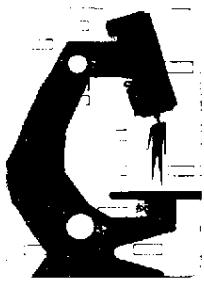
FORCED EXPIRATORY VOLUME, ONE SECOND (FEV1) - TO DETECT CHRONIC OBSTRUCTIVE LUNG DISEASE (EMPHYSEMA).

120	25	20.8	7.1
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CHEST X-RAY - TO DETECT TUBERCULOSIS, PNEUMONIA, LUNG TUMORS, HEART DISEASE, CHRONIC LUNG DISEASE AND CERTAIN BONE CONDITIONS.

122	2	1.6
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TEST

NUMBER TESTED	NUMBER ABNORMAL	PERCENT ABNORMAL	REFERENCE POPULATION
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CARDIOVASCULAR

BLOOD PRESSURE, SYSTOLIC - ELEVATED LEVELS DETECT ANXIETY AND SYSTOLIC HYPERTENSION WHICH ARE DEFINITE FACTORS IN HEART AND VASCULAR DISEASE.

126	11	8.7	6.0
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BLOOD PRESSURE, DIASTOLIC - ELEVATED LEVELS DETECT HYPERTENSION WHICH CAN LEAD TO STROKE, AND HEART AND VASCULAR DISEASE.

126	26	20.6	9.9
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ELECTROCARDIOGRAM - TO DETECT HEART DISEASE, ESPECIALLY CORONARY ARTERY DISEASE.

126	11	8.7	11.3
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BLOOD

BLOOD CHEMISTRIES

CALCIUM - ABNORMAL LEVELS HELP TO DETERMINE THE LEVEL OF NUTRITION AND DETECT CERTAIN HORMONAL, INTESTINAL, KIDNEY AND BONE DISORDERS.

123	1	.8	3.0
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PHOSPHORUS - ABNORMAL LEVELS DETECT HORMONAL, INTESTINAL AND KIDNEY DISORDERS.

123	5	4.1	.9
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BLOOD UREA NITROGEN (BUN) - ABNORMAL LEVELS DETECT KIDNEY, LIVER, AND CERTAIN INTESTINAL DISORDERS.

124	7	5.6	3.3
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CREATININE - ELEVATED LEVELS DETECT KIDNEY DISEASES.

124	0	.0	3.5
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BUN/CREATININE RATIO

124	NOT APPLICABLE		
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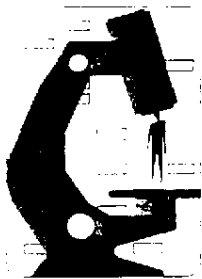


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TEST	NUMBER TESTED	NUMBER ABNORMAL	PERCENT ABNORMAL	REFERENCE POPULATION
BLOOD				
BLOOD CHEMISTRIES (CONT'D)				
URIC ACID - ELEVATED LEVELS DETECT GOUT. ALSO HELPS IN THE DETECTION OF KIDNEY DISEASE AND CERTAIN DRUG HABITS.				
	123	4	3.3	1.6
TOTAL PROTEIN - TO DETERMINE THE STATE OF NUTRITION AND THE BLOOD VOLUME AND PROTEIN LEVEL.				
	123	3	2.4	3.1
ALBUMIN - TO MEASURE NUTRITION. ABNORMAL LEVELS HELP DETECT LIVER, INTESTINAL, AND KIDNEY DISEASE.				
	123	4	3.3	1.7
ALBUMIN/GLOBULIN RATIO	123	NOT APPLICABLE		
GLUCOSE - TO MEASURE BLOOD SUGAR. ELEVATED LEVELS HELP DETECT DIABETES, A MAJOR FACTOR IN HEART DISEASE.				
< 2 HRS. SINCE EATING	77	NOT APPLICABLE#		
2 OR MORE HRS. SINCE EATING	47	0	.0	1.7
BILIRUBIN, TOTAL AND DIRECT - ABNORMAL LEVELS DETECT JAUNDICE, HEPATITIS, AND OTHER LIVER AND BLOOD DISEASES.				
TOTAL	123	2	1.6	2.2
DIRECT	123	0	.0	1.9
SERUM GLUTAMIC OXALACETIC TRANSAMINASE (SGOT) - ABNORMAL LEVELS DETECT DAMAGE TO THE HEART, LIVER, LUNG OR MUSCLES.				
	123	2	1.6	5.6
SERUM GLUTAMIC PYRUVIC TRANSAMINASE (SGPT) - ABNORMAL LEVELS DETECT LIVER DISEASE.				
	123	4	3.3	5.3
ALKALINE PHOSPHATASE - ELEVATED LEVELS DETECT LIVER AND BONE DISEASE.				
	124	2	1.6	2.9

THIS GROUP DID NOT FAST FOR THE REQUIRED PERIOD

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TEST

NUMBER TESTED	NUMBER ABNORMAL	PERCENT ABNORMAL	REFERENCE POPULATION
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BLOOD

BLOOD CHEMISTRIES (CONT'D)

LACTIC DEHYDROGENASE (LDH) - ABNORMAL LEVELS DETECT DAMAGE OF MANY ORGAN SYSTEMS (HEART, LIVER, LUNGS, MUSCLES, BLOOD).

123	3	2.4	3.2
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CHOLESTEROL - ELEVATED LEVELS HELP DETECT HEART DISEASE. LOW LEVELS DETECT HORMONAL AND INTESTINAL DISORDERS.

124	11	8.9	
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SERUM IRON - ABNORMAL LEVELS DETECT BLOOD (ANEMIA), INTESTINAL, AND LIVER DISORDERS.

123	9	7.3	3.5
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SODIUM - ABNORMAL LEVELS DETECT HORMONAL, KIDNEY, AND LIVER DISEASE.

124	4	3.2	2.8
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POTASSIUM - ABNORMAL LEVELS DETECT KIDNEY, HORMONAL, AND INTESTINAL DISORDERS.

123	16	13.0	5.7
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CHLORIDE - ABNORMAL LEVELS DETECT KIDNEY, LIVER, AND INTESTINAL DISEASE.

124	6	4.8	5.7
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GAMMA GLUTAMYL TRANSPEPTIDASE (GGTP) - ABNORMAL LEVELS DETECT LIVER DISEASE (HEPATITIS, CIRRHOSIS).

123	7	5.7	4.6
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SERUM TRIGLYCERIDES* - ELEVATED LEVELS DETECT THE BLOOD FAT CONTENT, A FACTOR IN HEART AND VASCULAR DISEASE.

< 12 HRS. SINCE EATING	115	NOT APPLICABLE*	
12 OR MORE HRS. SINCE EATING	9	11.1	16.0

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* WHEN INDICATED

THIS GROUP DID NOT FAST FOR THE REQUIRED PERIOD

700 Westchester Avenue, White Plains, NY 10604 • (914) 997-8888 • 11545 Sorrento Valley Road, Suite 308, San Diego, CA 92121 • (619) 275-0752



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TEST

NUMBER TESTED	NUMBER ABNORMAL	PERCENT ABNORMAL	REFERENCE POPULATION
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HEMATOLOGY

WHITE BLOOD COUNT (WBC) - TO DETERMINE THE LEVEL OF WHITE BLOOD CORPUSCLES, WHICH GUARD AGAINST INFECTION.

124	7	5.6	3.1
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DIFFERENTIAL WHITE BLOOD COUNT* - TO DETERMINE THE DIFFERENT TYPES OF WHITE BLOOD CELLS. CAN DETECT ALLERGY, LEUKEMIA, AND EXPOSURE TO TOXIC SUBSTANCES.

POLY	124	3	2.4	9.0
BANDS	124	0	.0	.0
LYMPHOCYTES	124	4	6.5	6.5
MONOCYTES	124	1	.8	5.3
EOSINOPHILS	124	10	8.1	4.9
BASOPHILS	124	8	6.5	1.7

RED BLOOD CELL COUNT (RBC) - TO DETERMINE THE NUMBER OF OXYGEN-CARRYING CELLS IN THE BLOOD. CAN HELP DETERMINE THE TYPE OF ANEMIA.

124	7	5.6	3.5
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HEMOGLOBIN (HGB) - TO DETERMINE THE LEVEL OF OXYGEN-CARRYING PIGMENT IN THE BLOOD. CAN DETECT ANEMIA, OTHER BLOOD OR LUNG CONDITIONS.

124	7	5.6	2.9
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HEMATOCRIT (HCT) - TO DETERMINE THE VOLUME OF OXYGEN-CARRYING RED BLOOD CELLS IN THE BLOOD. CAN DETECT ANEMIA AND BLEEDING CONDITIONS.

124	4	3.2	2.7
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MEAN CORPUSCULAR HEMOGLOBIN (MCH) AND MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC) - CALCULATIONS OF THE OXYGEN-CARRYING PIGMENT (HEMOGLOBIN) IN EACH RED BLOOD CELL. USEFUL TO CHARACTERIZE THE TYPE OF ANEMIA.

MCH	124	11	8.9	3.3
MCHC	124	0	7.3	2.9

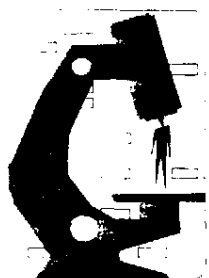
PLATELETS* - TO DETERMINE ADEQUACY OF PLATELETS WHICH ARE IMPORTANT FOR CLOTTING FUNCTION.

122	2	1.6	8.5
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TEST	NUMBER TESTED	NUMBER ABNORMAL	PERCENT ABNORMAL	REFERENCE POPULATION
URINALYSIS - TO DETERMINE THE LEVEL OF KIDNEY FUNCTION BY EXAMINATION OF THE URINE.				
BLOOD - BLOOD IN THE URINE IS INDICATIVE OF BLADDER AND KIDNEY DISEASE (CYSTITIS, NEPHRITIS).	125	2	1.6	.7
PROTEIN - PROTEIN IN THE URINE IS AN EARLY INDICATOR OF BLADDER AND KIDNEY DISEASE.	125	0	.0	.4
GLUCOSE - TO DETECT SUGAR, A FACTOR IN DIABETES MELLITUS.	125	1	.8	.7
PH - TO DETERMINE THE ACIDITY OF THE URINE, A TEST FOR KIDNEY DISEASE.	125	0	.0	.0
KETONES - ELEVATED LEVELS MAY INDICATE PROLONGED FASTING OR DIABETES.	125	0	.0	.4
SPECIFIC GRAVITY - ABNORMAL LEVELS MAY INDICATE RENAL DISEASE.	125	3	2.4	.9
APPEARANCE - ABNORMAL RESULTS MAY INDICATE KIDNEY OR BLADDER INFECTIONS OR OTHER DISORDERS.	125	NOT APPLICABLE		
MICROSCOPIC* - AN ANALYSIS OF CELLS IN THE URINE TO INDICATE INFECTION OF THE BLADDER AND KIDNEY.				
WHITE BLOOD COUNT	125	0	.0	1.9
RED BLOOD COUNT	125	2	1.6	1.4
CASTS	125	2	1.6	.2
BACTERIA	125	NOT APPLICABLE		
EPITHELIA	125	NOT APPLICABLE		
CRYSTALS	124	NOT APPLICABLE		
YEAST	125	NOT APPLICABLE		

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NUMBER TESTED	NUMBER ABNORMAL	PERCENT ABNORMAL	REFERENCE POPULATION
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HEMOCCULT* - TO DETECT BLOOD IN THE STOOL. CAN BE SUGGESTIVE OF
GASTRO-INTESTINAL DISEASE AND CANCER.

75	2	2.7	2.1
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