



The Benzene Surveillance Exam may be performed in association with other approved periodic health screening exams, in which case the content and scope may become more extensive. However, before medical approval can be advised for unrestricted activity in job positions with the potential for exposure to benzene, the following guidelines should be observed.

FREQUENCY

- o Consult 29 CFR 1910.1028 regarding specific requirements for medical surveillance of employees assigned to jobs having potential for benzene exposure. Examinations are required prior to assignment and annually during assignments with potential benzene exposure. Employees leaving such assignments will be examined according to Conoco's established periodic health screening procedures unless medical conditions warrant more frequent or more extensive examinations.

MEDICAL HISTORY

- o The employee must complete the Confidential Interval Health History form. The examining physician should record on the form details of occupational history with special attention to work place exposures. Any past exposure to chemicals known to adversely effect the bone marrow or any past hematologic abnormalities which are potentially work related should be recorded, as well as details of any significant exposure to radiation. Any past illness or abnormality of the hematopoietic system should be carefully evaluated. Any medications used by the worker whose normal or adverse effects impact upon the hematologic or cardiovascular system should be carefully noted. Smoking habits should be recorded.

PHYSICAL

- o The examination should be thorough and complete with respect to all organ systems. Record these findings on the Conoco Physical Examination Record.

LABORATORY STUDIES

- o Complete blood count, including a thrombocyte count, erythrocyte count, leukocyte count with differential, hematocrit, hemoglobin, and erythrocyte indices.
- o Dipstick urinalysis with microscopic only if clinically indicated.
- o Other clinically appropriate routine laboratory studies as determined by the examining physician.
- o Individuals wearing respirators ≥ 30 days a year must have a pulmonary function test every three years.

APPROVAL AND NOTIFICATION

- o Recommendations regarding the need for job-related restrictions should be made on the Conoco Medical Evaluation form. Completion of the Respiratory Certification section is essential.
- o Medical conditions that would place an employee at significant risk from exposure to benzene should be listed in the Comments section of the Medical Evaluation Form.
- o The examining physician is expected to inform the individual of examination findings, answer immediate questions, and provide any needed recommendations.

Only outpatient exams are approved. The employee is responsible for charges associated with any additional tests, referrals, or diagnostic procedures unless the Medical Division has agreed in advance to accept such charges.

All forms and laboratory reports should be sent marked CONFIDENTIAL to Conoco Inc., Medical Division, PE-1050, P. O. Box 2197, Houston, TX 77252.

VOL.% BENZENE OF FINISHED GASOLINES

PONCA CITY

			<u>Vol. %</u>
TK 114	Unleaded	March 1977	0.6
TK 151	Regular	March 1977	1.0
TK 101	Premium	March 1977	0.6
TK 150	Regular	5-9-77	0.8
TK 148	Premium	5-9-77	0.2
TK 156	Regular	5-9-77	0.8
TK 156	Regular	5-10-77	1.1
TK 150	Regular	5-10-77	0.9
TK 161	Unleaded	5-10-77	0.6
TK 148	Premium	5-10-77	0.2
TK 155	Regular	5-10-77	0.8
TK 102	Premium	5-10-77	0.6
TK 167	Regular	5-10-77	1.1
TK 114	Unleaded	5-10-77	0.6
TK 156	Regular	5-10-77	0.8
TK 170	Regular	5-10-77	1.1
TK 155	Regular		0.8
TK 167	Conotane	5-12-77	1.1
TK 116	Unleaded	5-12-77	0.6
TK 102	Premium	5-12-77	0.6
TK 153	Wm. Bros. Premium	5-13-77	0.3
TK 151	Wm. Bros. Regular	5-14-77	0.9
TK 156	Regular	5-15-77	0.8
TK 150	Regular	5-17-77	0.8
TK 155	Regular	5-18-77	0.7
TK 167	Regular	5-18-77	1.1

VOL.% BENZENE OF REFINERY STREAMS

<u>PONCA CITY</u>	<u>%</u>
PC 5952 St. Run	1.4
PC 5962 #3 Ref. Chg.	0.2
PC 5963 #3 Reformate	1.3
PC 5965 #4 FCC Lt. Gaso.	0.3
PC 5966 #4 FCC Hvy. Gaso.	<0.1
PC 5954 Coker Gaso.	0.1
PC St. Run 5-12-77	1.0
PC #5 FCC Gasoline	0.5
PC Cat Poly 5-17-77	<0.1

<u>BILLINGS</u>	
PC 1568 #1 St. Run	2.6
PC 1572 #2 St. Run	1.8
PC 1572B Comp. St. Run	1.9
PC 1571 #1 Naphtha	0.1
PC 1575 #2 Naphtha	0.3
PC 1569 #1 Reformate	0.3
PC 1573 #2 Reformate	0.9
PC 1570 Lt. & Hvy. FCC Gaso.	0.5

<u>DENVER</u>	
PC 2469 Reformate	1.0
PC 2470 Desulf. Chg.	0.1
PC 2467 Total FCC	0.4 Duplicate 0.4 5-13-77
PC 2466 SAS St. Run.	0.6
PC 1834 DE 215 Crude Unit St. Run	0.6
PC 1835 DE 216 Rerun Unit St. Run	0.6
PC 1836 DE 217 FCC Gasoline	0.4
PC 1837 DE 218 Cat Poly Gasoline	0.2
PC 1838 DE 219 Reformate	0.9

VOL.% BENZENE OF REFINERY STREAMS

<u>LAKE CHARLES REFINERY (May 1977)</u>			<u>Vol.%</u>
PC 1842	LC 643-77	Coker Gasoline	0.2
PC 1843	LC 644-77	Thermal Gasoline	0.3
PC 1844	LC 645-77	TCC Gasoline	0.5
PC 1819	LC 646-77	#1 L.S.R.	1.8
PC 1846	LC 644-77	#2 L.S.R.	1.6
PC 1847	LC 648-77	Denuded Casinghead	3.7
PC 1848	LC 649-77	#1 Reformate	0.9
PC 1849	LC 650-77	#2 Reformate	1.0
PC 1850	LC 651-77	Primary Tower OH	2.8

<u>PARAMOUNT REFINERY</u>			
PC 1857	Pa 127-77	Light Naphtha 5-13-77	1.5
PC 1858	Pa 128-77	Low Severity Reformate 4-20-77	0.9
PC 1859	Pa 129-77	High Severity Reformate 4-25	1.3