Tire Impression and Tire Track Evidence Notes – chapter 20

Overvi	ew:	1	ire Impression and	i Tire Trac	k Eviaence Noi	es – cnapier	20	
Wł	nat is a tire impr	ession?						
	=							
***		2						
Wł	nat is a tire track	ζ?						
Wł	ny do we care al To help	oout this type o	of evidence?					
Backgr	ound info on ti	res:						
Tir	res come in		of	_ and nume	rous	·		
Tir	res on	vehic	les are known as			(OE)	tires.	
	Importance =	the same	les are known as and _		vehicles v	will have the		tire
								
Tir	es purchased to		_ worn down or		tires are called		tires	
- 11								so a vehicle with 3 or 4
	replacement ti	res, each of _	desig	gn, sets up	a	_ situation		
т:								
1 1r	re construction:	e of various co	mpounds of			and		
	The tire is con	structed	any de	esign first (,	tire). The	n placed in a	where
		and	designs	are added		_ /		
S_	element, sipe,	components-	_	`				
		\$	side (face)				
			to investigators	/				
			and style name	(sides)			
			lin XM+S 244					
	• Tire	Ex. P195	(sides)				
	• D	_	of Transportation () Number (side)	
		Begins with _						
		Next = symbo	ls for	and pl	ant code (where	it is)	
		Next = 3 or 4	numbers that repres	ent	and _		tire manuf	actured (ex. 4901 =
	• NOT	E: some tires a	_ week of nre) These ti	res will have a _		number.	
Noise T	reatment:							
0	As tires	tl	ne design elements		and prod	uce	oise would be t	ery
0			= tire indu					
	elements arou				88			
	(See figure 19	.6)						
Tread v	wear indicators	<u>s</u> :						
		_		1.1.1.				
	Important in	pars—indi	cate when tire shou = can be retaine	na be d in	 imp	ressions		
	mportunt m _		= can be retaine	· · · · · · · · · · · · · · · · · · ·	mp	3510113		

Tire Track Evidence:

Tree Track width = measurement made from	Includes	tire track		dimensions, and turn	ing	_
Wheelbase dimensions = the measurement between the of the of the of the of the rear wheels (NOTE: is enough info detail retained at scene to this measurement) Turning diameter = diameter of the a vehicle makes when steering wheel is turned. (NOTE: can	•					
to the of the of the rear wheels (NOTE: is enough info detail retained at secret to this measurement) * Turning diameter =diameter of the a vehicle makes when steering wheel is turned. (NOTE: can be used to vehicles that turn at least that vehicles that turn at least that of tracks, to one another, of travel) **Recovery of Tire Evidence:* First = crime scene photographs from many angles), and notes (of tracks, to one another, of travel) Then = examination photograph evidence EXCEPT for tire impressions . longer impressions taken as sequentially photos. (NOTE: all photos should be taken with or other size reference device placed to, NEVER net impression) Then = any impression ft or smaller should be cast with a tire Tire Evidence Examination: First the will be compared with tires from vehicle, noting on car on car 2. Elimination vehicles (vehicles to have been at the scene, i.e on car 2 a of tire is usually all that is needed with a tire on car		of the	opposite (NOTE:	vehicles of	can share the same)	
at scene to	•	Wheelbase dimensions =	the measurement bet	ween the	of the	of the front wheels
****tire		to the	of the	$\underline{}$ of the rear wheels (NOTE: is	enough info detail retained
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First =			be used	1 to	vehicles that	turn at least that
First =		,				
	Recovery of Tire	Evidence:				
Then = examination	First =	crime scene	photographs (, from many ar	ngles), and notes (_	of tracks,
this is done in		to one another,	of trave	el)		
. longer impressions taken as sequentially						
(NOTE: all photos should be taken with or other size reference device placed to, NEVER, the impression ft or smaller should be cast, often, cast offers physical evidence for later with a tire with a tire Tire Evidence Examination: First the will be compared with tires on car Elimination vehicles tires from vehicle, noting on car Elimination vehicles (vehicles to have been at the scene, i.e					XCEPT for	tire impressions
Then =						
any impression		-		or other size refere	ence device placed	to, NEVER
any impression	Then =					
Tire Evidence Examination: First the will be compared with on car 1 vehicles tires from vehicle, noting on car 2. Elimination vehicles (vehicles to have been at the scene, i.e car) a of tire is usually all that is needed ***tire most useful to times from with suspect tire(s) Then if design the tires must be analyzed to make a match. To do so, will need to make a impression with suspect tire(s) usually done on material so can be on impression from scene. Analysis includes: • Closer look at design elements, grooves, and sipes • Tread and characteristics (NOTE: Tread Design and Who Makes it and Where lists issued as reference material as well as a database to store wheelbase, track width, and turning radius can help create of vehicles) • treatment and features—useful to narrow down the possible number of tires. Also, wear bars and noise treatment can be used in combination to or eliminate the of the tire that have made the scene impression.	any i	mpression	ft or smaller shou	ld 1	oe cast	
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cuts and it present on impression and suspect the, this can allow for positive		cuts and if present of	on i	mpression and suspec	t tire, this can allow	for positive
• tires of different designs—when found on one vehicle, the likelihood of finding another vehicle with the combination of tire designs is or						