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Meeting Minutes: Surveillance Panel Conference Call – September 4, 2014, 10:00 am – 11:00 am CST

Participating Members:

Angela Trader, Intertek  
Dale Smith, Intertek  
Jarrod Chalkley, Afton  
Jerry Gropp, Lubrizol  
Matt Umerly, Lubrizol  
Rebecca Warden, SwRI  
Dawn Beswetherick, AAM  
Mark Collins, AAM  
Mike Tocco, AAM  
Greg Marsh, AAM  
Scott Parke, TMC  
Larry Hamilton, Lubrizol

- Reviewed the Bill of Material (BOM) supplied by American Axle (AAM). (See attached). Asked AAM for minor corrections and completions. Group elected to eliminate the factory gasket.
- Packaging of axles was briefly discussed. Group decided best packaging was to use VCI bags and rust preventative (same as what was used for Zeta 218 axles). Mike Tocco was to determine if any price increase would be incurred.
- Lab order quantities was discussed with the following quantities:
  - Afton: 120 units
  - Lubrizol: 250 units
  - SwRI: 225 units
  - Intertek: 100 units
- Lead time for delivery of axles is 12 weeks after POs are received by AAM. After 12 weeks, axles would be shipped in quantities of approximately 20 per week.
- After American Axle folks dropped off of the call, Jerry Gropp explained that LZ has run 3 tests using industry fluids in the new axles. The third test, using a J2360 approved fluid, yielded unfavorable results. Rust was found in rating areas 2,3,4,9,and 10. Of particular concern was the rust on the bearings. AAM uses Koyo bearings for this axle. Lubrizol expressed that they would further investigate the issue.
- Angela Trader was requested to contact Mike Tocco at AAM and inquire about replacing the Koyo bearings with Timken bearings, including cost.

Meeting adjourned

**L33 Axle - American Axle P40128429A 8.6" 3.42 Ratio Open Differential**

**Part No**

	<b>Operation</b>	<b>Qty</b>	<b>Component Part/Item</b>	<b>Component Name</b>	<b>AAM Note</b>	<b>ASTM Note</b>
P40128429A-5276	10-Assemble	1	00517900-D	WASHER, PINION FLANGE	WASHER, PINION FLANGE	
P40128429A-5276	10-Assemble	1	09783762-F	NUT, REAR AXLE DRIVE PINION	ALT: 09783762- PPR/RevA	
P40128429A-5276	10-Assemble	1	26060975-E	PINION SEAL SLEEVE	SLEEVE, PINION SEAL	
P40128429A-5276	10-Assemble	1	26064029-D	Pinion Seal	SEAL, PINION	
P40128429A-5276	10-Assemble	1	40010355-D	GSVPTU Spacer, Collapsible	SPACER, PINION BEARING	
P40128429A-5276	10-Assemble	1	40018901-E	GASKET DIFF COVER PAN	GASKET, DIFF COVER PAN	Not Needed - Remove
P40128429A-5276	10-Assemble	1	40048052-B	BEARINGS	BEARING, TAPERED CONE	See below
P40128429A-5276	10-Assemble	1	40048053-B	Bearings	BEARING, TAPERED RACE	See below
P40128429A-5276	10-Assemble	2	40048055-B	TAPERED ROLLER BEARINGS	BEARING, TAPERED CONE	See below
P40128429A-5276	10-Assemble	2	40048056-B	BEARINGS	BEARING, TAPERED RACE	See below
P40128429A-5276	10-Assemble	1	40048058-B	BEARING	BEARING, TAPERED RACE	See below
P40128429A-5276	10-Assemble	1	40048060-B	BEARING	BEARING, TAPERED CONE	See below
P40128429A-5276	10-Assemble	10	40061033-A	BOLT-RING GEAR 8.6 ENHANCED	BOLT, 7/16 X 20	Specify no thread lock
P40128429A-5276	10-Assemble	10	40089728-B	BOLT, COVERPAN	BOLT, COVERPAN	Specify no thread lock
P40128429A-5276	10-Assemble	1	40090474-A	FLANGE DEFLECTOR ASM	FLANGE ASM, DEFLECTOR AND	
P40128429A-5276	10-Assemble	1	40097382-B	CARRIER, DIFF (MACH)	CARRIER, DIFF (MACH)	One run of manufacture
P40128429A-5276	10-Assemble	1	P40128432A-A	GEARSET, RING AND PINION	GEARSET, RING AND PINION	Non lubrited; One run of manufacture from same heat of steel
P40128429A-5276	10-Assemble	1	40048312-C	COVER ASM DIFF CARRIER		Without Magnet
P40128429A-5276	10-Assemble	1	40042937-G	FILL/DRAIN PLUG		Without Magnet
P40128429A-5276	15-Rework Assembly	1	40048044LUB-D	Diff ASM STD		
P40128429A-5276	15-Rework Assembly	2	40048055LUB-B	Bearing		See below
P40128429A-5276	15-Rework Assembly	2	40048056LUB-B	Bearing		See below
		2	?	Diff Side Gears		
		2	?	Diff Thrust Washers		
		2	?	Diff Pinion Gears		
		1	?	Diff Pin		
		1	?	Diff Pin Retaining bolt		Specify no thread lock

<b>Bearing Details</b>				
Head				
2	1	40048051	BEARING ASM, TAPERED	Koyo
3	1	40048052	BEARING, TAPERED CONE	Koyo
3	1	40048053	BEARING, TAPERED RACE	Koyo
Tail				
2	1	40048057	BEARING ASM, TAPERED	Koyo
3	1	40048058	BEARING, TAPERED RACE	Koyo
3	1	40048060	BEARING, TAPERED CONE	Koyo
Diff				
2	2	40048054	BEARING ASM, TAPERED	Koyo
3	2	40048055	BEARING, TAPERED CONE	Koyo
3	2	40048056	BEARING, TAPERED RACE	Koyo

**Additional Comments:**

We need rust preventative sprayed into assembly