SUBJECT: Preventive Maintenance Guide

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LIT NO: L578

REVISION: D

INTRODUCTION This document recommends inspection areas and

lubrication points on Hendrickson Trailer suspensions and components. Table 1 recommends inspection points and intervals for suspension components and systems. Table 2 recommends inspection and service after IDLE TIME or exposure to FLOOD. A list of relative literature is also included. The information in this document applies to Hendrickson products only. For inspection and lubrication of vendor component

products installed by Hendrickson, refer to VENDOR LITERATURE on page 3. NOTE: Concepts and Functions is now included in

literature T15001. PERIODIC INSPECTION SCHEDULE

The Hendrickson Trailer air suspension requires very little attention (Table 1). Using the information in this

publication and other Hendrickson publications will ensure maximum air suspension component life. IMPORTANT: This document includes minimal inspection requirements for normal

subjected to some off-road, abnormally rough or extreme conditions, inspection and lubrication should be adjusted to ensure maximum suspension performance and integrity.

on-highway applications. For trailers

recommended is based on an average trailer usage of 100,000 miles (160,000 km) per year. Higher usage would require more frequent inspections.

NOTE: The frequency at which inspections are

There are few areas requiring lubrication for

Hendrickson suspensions and axles. For literature providing lubrication details, refer to relative HENDRICKSON PUBLICATIONS, VENDOR LITERATURE and TMC on page 3. The only Hendrickson components requiring

LUBRICATION POINTS AND FREQUENCY

lubrication are S-cam spider bushing and support bearing journal or cam tube. Each requires NLGI #2 EP chassis lubricant and should be replenished MONTHLY. Always apply grease until fresh lubricant appears at purge point. CONTACT HENDRICKSON

Services include:

EMAIL For Hendrickson Trailer Technical Services, use the

Methods of contacting Hendrickson Trailer Technical

following e-mail address:

PHONE

HTTS@Hendrickson-intl.com

Contact Hendrickson Trailer Technical Services

directly in United States or Canada at 866-RIDEAIR

(743-3247). From the voice menu, select Technical Services/Warranty. ⚠WARNING: Always wear proper eye protection and other required PPE (personal protective equipment) when

state and local safety regulations as appropriate.

performing vehicle maintenance, repair or service. Follow federal,

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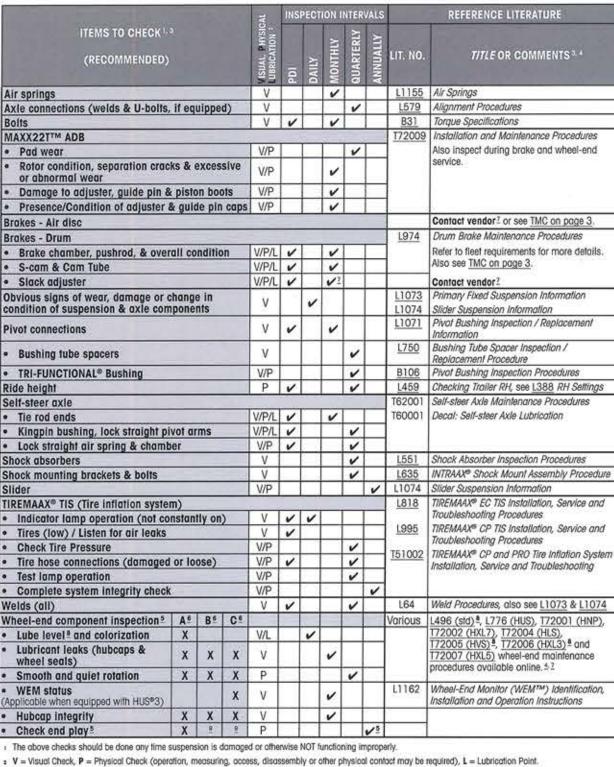
The World Rides On Us

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(RECOMMENDED)

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7 For information on vendor components, contact the vendor directly. Links to ADB and wheel end VENDOR LITERATURE is available at www.Hendrickson-intl.com/TrailerLit. If applicable and during warranty coverage of Standard 1-year, HVS and HXL3 wheel ends; topping off oil to the hubcap fill line is allowed. The oil type must be the same as ariginally filled by Hendrickson during suspension build. CONTACT HENDRICKSON for more details or questions.

s While under warranty, Hendrickson Technical Services must be contacted prior to hubcap removal and servicing.

Servicing of wheel ends is not recommended while under warranty, unless necessary and after contacting Hendrickson Technical Services Table 1: Hendrickson trailer suspension systems recommended inspection points and schedule

Relative literature for inspected items is available on the Hendrickson Trailer Suspension Literature web page at www.Hendrickson-intt.com/TrailerLit.

A = Standard Service 1-year warranty wheel end package), B = Extended-Life wheel ends (HLS*, HVS*, HVS*, HXL3*, HXL3*, HXL7*), C = HUS*

a For any inspection issues requiring service, refer to documents listed in the "Lift. No." column, <u>T12002 Suspension Troubleshooting Procedures</u> (includes list of relative <u>TMC RPs</u>) or <u>T15001 Air Ride Suspension Concepts and Functions</u> for assistance or <u>PERIODIC INSPECTION SCHEDULE</u> as needed.

Lubrication S-cam spider bushing and support bearing journal or Table 1 includes a list of recommended areas to cam tubes should be greased at this time and during

Quarterly

Inspection

Lubrication

Appendix A, identifies various suspension components listed in Table 1 for inspection. Although the areas indicated are specific, a general inspection should

wear or damage may occur. For inspection of vendor components, some of which is included, refer to trailer OEM, TMC or component

TABLE 1: INSPECTION

AREAS TO INSPECT

INSPECTION/LUBRICATION INTERVALS As stated on page 1, the following periodic intervals for inspection and lubrication can be modified according to trailer use. Inspection and lubrication may be required more often if: Required by OEM

Required by component vendor; contact vendor.

Trailer type and application demands are high

Impact or other evidence of suspension damage.

trailer OE to be conducted prior to new trailer delivery

manufacturer or new trailer dealer and includes testing

to the customer. It is to be performed by the vehicle

vendor documentation for more information.

inspect, periodic intervals and related literature.

Publication T12002 Suspension Troubleshooting,

include any point on the suspension where suspected

- PDI Pre-Delivery Inspections are typically required by the
- should also be performed by a repair facility after replacing a suspension, slider box (AMBOX™) or axle/beam weldment (HALFTRAAX™).

suspension and vehicle for proper operation. This

occur. During a walk-around, check for any obvious problems or abnormalities.

broken or loose parts before any serious problems

This pre-operation inspection can detect worn,

for condition and potential leaks.

This inspection is more comprehensive than the daily inspection and covers more areas. Seals, hubcap and hubcap gaskets should be checked

Monthly

Inspection

Daily

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Air springs

Bushing tubes

Shock absorbers

Bushing tube spacers

Brakes

ITEMS TO CHECK

(RECOMMENDED)

Air line hoses, tubing, fittings, valves, etc...

Obvious signs of damage or wear

Same as Monthly. As a minimum requirement, all lubrication points should be re-lubricated at this time interval, including slack adjusters.

inspections listed in Table 1.

Annually Inspection

Along with monthly inspection, perform quarterly

Same as Monthly. REFERENCES Several Hendrickson and vendor references provide

Lubrication

are beyond the scope of this document. HENDRICKSON PUBLICATIONS References to Hendrickson Trailer literature can be

found online at www.Hendrickson-intl.com/TrailerLit.

References to vendor literature and contact information

Click on the hyperlinked literature number, listed in

inspection and lubrication information and details that

www.Hendrickson-intl.com/TrailerLit.

TMC

Practices Manual.

COMMENTS

The Technology & Maintenance Council (TMC) is a branch of the American Trucking Associations (ATA)

(www.frucking.org). For the past 30+ years they have been defining and publishing recommended practices

(RPs) for commercial vehicles and equipment. They

are listed in the TMC Recommended Maintenance

Wires	V		V	Exposure to moisture can corrode electrical connection and connectors.
		SER	VICI	2
Contamination ³	V		V	Where critical, remove all containments.
Lubrication 2	V/P/L	V	V	Ensure lubricant is fresh and moisture free at all grease fittings. Refer to items (L) and relative literature column of Table 1 for more details.
S-cam and cam tubes	P/L	V	V	
Smooth wheel bearing rotation	P	V	V	
Change hub seals, gaskets and lubricant	P/L		V	Mandatory after flood, as needed after idle.
3 Replacing lubricant purges any collected moisture and/or degraded. Table 2:	895.0.59	· susuc	nt ins	pections & service
TABLE 2: AFTER IDLE TIME OR FLOOD Table 2 includes recommended inspections and service for trailers that have been idle or submerged in water.		de ne	eals and gaskets not exposed to lubricant can egrade in performance. Check and replace as eeded.	
Trailer suspensions not operated (idle) for prolonged periods of time must be inspected prior to renewed			pe	urface cracks on rubber components do not effect erformance. Refer to vendor for questions if needed.

Oil and water do not mix. Lubricants continue to operation (e.g. Trailer used for storage, etc...).

> lead to rust and corrosion. Refer to PERIODIC INSPECTION SCHEDULE for any questions or issues relative to inspection or lubrication



exposed to the environment.

Normally, machined surfaces (bearing races,

bearings, etc...) are protected by lubrications flowing

motion causes lubricants to flow downward and away from these surfaces until it reaches a level pool in the

hub. Metal surfaces are eventually unprotected and

onto, over and around during use. Lack of trailer

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Along with Monthly and Quarterly, perform annual inspections listed in Table 1.

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any service when grease points are easily accessible.

can be found online, starting at the vendor's home page. Some vendor literature is listed and linked in the "Brake & Wheel-End Components" section of

Table 1, to open.

VENDOR LITERATURE

Inspect while aired up at ride height.

AFTER FLOOD

INSPECTION²

V

V V

V

V

V/P

V

٧

V/P V

V V

V

Pests and insects will enter and nest in any small opening. Seals and gaskets can dry and become non-functional.

Refer to L551.

seek a level state, even while under water. All metal surfaces, wires and materials that are directly exposed to moisture, pollutants and other contaminants can

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or CONTACT HENDRICKSON.

Call Hendrickson at 866.RIDEAIR (743.3247) for additional information. TRAILER COMMERCIAL VEHICLE SYSTEMS Hendrickson Canada 250 Chrysler Drive, Unit #3 Brampton, ON Canada L6S 686 800.668.5360

www.hendrickson-intl.com