International® A26 (2017)

Overview: *Change Oil Service Interval*

TABLE OF CONTENTS

General Overview: Change Oil Service Interval

The Change Oil Service Interval feature provides a visual reminder to the operator that the oil change interval is soon to expire or has expired and routine maintenance should be performed.

This feature measures the vehicle distance, engine ruining time, or fuel used since the last time the oil was changed to calculate when the next oil change is due.

Description and Operation

> *NOTE: Refer to the vehicle operation and maintenance manual, as well as the A26 engine operation and maintenance manual, for additional information on operation and indications.*

Description
There are three programmable parameters that set the service intervals; Engine hours, Vehicle Distance and Fuel Used.

There remaining four programmable parameters reset the interval and determine when and how long the warnings are displayed.

Change Engine Oil – Text Message and indicator
Depending on the model of the vehicle, a combination of a warning lamp and a display message will alert the driver that maintenance is due.
The "Change Engine Oil" text message and a yellow service wrench, in the gauge cluster, indicates the engine oil change interval is soon to expire or has expired.

The waring indications can be programmed to come on and go off when a percentage of an interval is reached and then come on steady when the interval is met or it can be programmed to just come on steady.

Service Interval Reset
To reset the service interval using the Navistar Engine Diagnostics (NED) software:
Set parameter 95101 to a value of (1) and depress program button to reset service interval and turn off the "Change Engine Oil" indication and the Yellow service wrench indication.

To reset the service interval using the cruise switches:

> *IMPORTANT! –* *You only have 12 seconds to complete this procedure after the key is turned ON.*

1. ***Key must be off for 60 seconds*** before turning the ignition key-ON with the engine-OFF.
2. Press and release CRUISE ON.
3. Press CRUISE RESUME switch 4 times (do not hold longer than half a second).
4. Press and hold CRUISE RESUME switch a fifth time and hold for 3 seconds.

5. "Change Engine Oil" message and the Yellow service wrench indication are reset.

Note: If the above procedure does not reset the service interval: cycle the ignition key switch off, for 60 seconds, and go to step 1.

Programmable Parameters

"Customer Programmable" parameters can be adjusted differently than the production assembly plant setting, to meet customer's needs. If a parameter is indicated as non‐customer programmable, the parameter setting is preset from the factory and can't be changed without dealer authorization.

Parameter Name	Description	Possible Values	Customer Prgm?	Recommended Setting
Fuel Used Service Interval (95012)	Determines fuel used between last service interval reset and "Change Engine Oil" indication. Set parameter to value recommended in "MAINTENANCE SCHEDULE AND SERVICE PROCEDURES" section of the "Engine Operation and Maintenance Manual".	0 to 65514 gallons	YES	Refer to N13 Engine Operation and Maintenance Manual.
Engine Hour Service Interval (95022)	Determines engine hours between last service interval reset and "Change Engine Oil" indication. Set parameter to value recommended in "MAINTENANCE SCHEDULE AND SERVICE PROCEDURES" section of the "Engine Operation and Maintenance Manual".	0 to 2000 (hours)	YES	Refer to N13 Engine Operation and Maintenance Manual.
Vehicle Distance Service Interval (95032)	Determines vehicle distance between last service interval reset and "Change Engine Oil" indication. Set parameter to value recommended in "MAINTENANCE SCHEDULE AND SERVICE PROCEDURES" section of the "Engine Operation and Maintenance Manual".	0 to 1,334.384 miles	YES	Refer to N13 Engine Operation and Maintenance Manual.
Service Soon Percent (95072)	Determines functionality of "Change Engine Oil" indicator. To help set this parameter, refer to "Change Engine Oil Calculations and Example" in this document. • If parameter is set to 100%, "Change Engine Oil" indication occurs when one or more intervals (hours, fuel, or distance) have expired. If value is set to 50%, "Change Engine Oil" indication occurs when half of the interval has accumulated.	5 to 100 (%)	YES	Customer Chosen (See Change Engine Oil Calculations and Example)
Service Interval Reset Request (95101)	Set parameter to value of (1) to reset service interval and turn Off "Change Engine Oil" indication. • Service interval may be reset by cruise control switches. Refer to Service Interval Reset section in this document.	0: No 1: Yes	YES	Customer Chosen

Parameter Name	Description	Possible Values	Customer Prgm?	Recommended Setting
Change Oil Lamp Always On (95081)	Set parameter to value of (0) to make the service message and wrench stay on for a designated period of time, defined by 95095. This is the maximum time the lamp and message will be active each key on Set parameter to value of (1) to make the service message and wrench remain on, when the key is "On".	0: No 1: Yes	YES	Customer Chosen
Change Oil Lamp Activation Time (95092)	Determines the time the service message and wrench stay on, if 95081 is set to (0).	0 to 1275 (seconds)	YES	Customer Chosen

Parameter Setup

Change Engine Oil Calculations and Example

The Service Soon Percent parameter determines when the "Change Engine Oil" indication will occur. Refer to the following equation before choosing the "Service Soon Percent" (95072) parameter value.

$$\text{Service Soon Percent (95072)} = \frac{\text{Desired Service Interval - Desired Advanced Notice}}{\text{Desired Service Interval}}$$

1) Input desired service interval i.e. 25,000 miles (40,234 kilometers).
2) Subtract amount of notification desired prior to expiration (i.e. 2,000 miles (3,219 kilometers).
3) Divide result by desired service interval.
4) Move resulting decimal (0.92) two places to the right to establish the percentage (92%) to be in put into the "Service Soon Percent" parameter.

Example

$$\text{Service Soon Percent } 0.92 = \frac{25{,}000 - 2000}{25{,}000}$$

Possible Service Interval Applications

This section describes only a few possible applications of this feature and how the programmable parameters can be effectively configured for each application. This is not a comprehensive list, and does not include all possible applications that an owner/operator might encounter.

(Example A) – Fuel / Hours / Distance Based Service Interval

In this example, let's assume the customer desires the service interval to be based on fuel used, engine hours, or vehicle distance; whichever occurs first, and they would like to be notified prior to the expiration of the service interval.
Adjust parameters as follows:

Parameter Name	Action Required
Fuel Used Service Interval (95012)	Set to values recommended in the "MAINTENANCE SCHEDULE AND SERVICE PROCEDURES" section of the Engine Operation and Maintenance Manual. Refer to Engine Oil and Filter – Service Interval for details.
Engine Hour Service Interval (95022)	Set to values recommended in the "MAINTENANCE SCHEDULE AND SERVICE PROCEDURES" section of the Engine Operation and Maintenance Manual. Refer to Engine Oil and Filter – Service Interval for details.
Vehicle Distance Service Interval (95032)	Set to values recommended in the "MAINTENANCE SCHEDULE AND SERVICE PROCEDURES" section of the Engine Operation and Maintenance Manual. Refer to Engine Oil and Filter – Service Interval for details.
Service Soon Percent (95072)	Set to "90%"

(Example B) – Vehicle Distance Based Service Interval

In this example, let's assume the customer desires a 25,000 mile service interval and they would like to be notified 2,000 miles before the service interval expires.

Adjust parameters as follows:

Parameter Name	Action Required
Fuel Used Service Interval (95012)	Set to "0"
Engine Hour Service Interval (95022)	Set to "0"
Vehicle Distance Service Interval (95032)	Set to "25,000 miles "
Service Soon Percent (95072)	Set to "92%"

Frequently Asked Questions

Q. I have an "over the road" driver and I want them to be notified 2,000 miles (3,219 kilometers), before the service interval has expired, using a 25,000 mile (40,234 kilometer) interval. How do I set this up?

A. Refer to "Example B" in this document.

Definitions/Acronyms

Acronym	Definition
ECM	Engine Control Module
NED	Navistar Engine Diagnostics