MERITOR® CALIPER CORE MANUAL







INTRODUCTION

With the increased global focus on sustainability and recycling, remanufacturing is becoming more and more popular. The automotive aftermarket has a long tradition of remanufacturing major components and even remanufactured safety related items such as brake calipers are accepted, and sometimes favoured by end users. A quality remanufactured component offers OE equivalent performance while giving cost benefits as well as saving on raw materials and energy.

Remanufacturing 50,000+ brake calipers, and 1,500+ differentials per year Meritor takes its commitment to be a sustainable and green manufacturer very seriously. We estimate that our remanufacturing operations save 3,800 tons of CO2 emissions per year, as well as recycling many 1000's tons of iron and steel.

To ensure maximum benefit from our remanufacturing process, efficient core return and high core quality is vital. This document is designed to ensure that our core returns processes are understood and as easy as possible for you to work with.





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1. MERITOR CORE RETURNS POLICY

As a remanufacturer, it is vital that we receive the correct mix and quality of old core.

This enables us to maintain good product availability across our range and provide high quality product to you – when you need it. These documents are designed to explain our core policy, our core returns process and paperwork and core acceptance criteria to you. Working together efficiently on core collection benefits both your company and Meritor.





CORE POLICY TERM DEFINITIONS

- Core eligibilities are defined as cores eligible for credit resulting from purchases of surchargeable product. Core eligibilities are often referred to as "cores owed".
- Core bank is defined as cores returned in excess of what is eligible (within a core group), resulting in a "banked" condition. Sometimes known as "over returns".
- Exchange product is a product, which could be new or remanufactured, where core return is required.

CORE ELIGIBILITIES AND BANKS

- Core returns will be applied to the oldest eligible purchase.
- Returned cores will be valued based on the original core surcharge value in accordance with the Core Acceptance Guidelines.
- Cores must be returned within 12 months of purchase in order to be eligible to receive credit for the accepted cores. Eligibility is expired if the core is not received back in acceptable condition within 12 months.
- Core returns which exceed core eligibilities will result in the cores being banked.
 - A core bank balance can be reduced by purchasing exchange product or increased by returning more cores.
 - Core balances not used within 12 months will be eliminated from the core bank. You can see where banked core is due to be lost on your monthly core statement.
 - Core banks cannot be converted to cash credits, returned or transferred to other core groups.
 - Core bank values cannot be deducted from payments to Meritor.
- Only returned cores meeting the Meritor Core Acceptance Guidelines will be accepted.
- Core surcharge values are subject to change. Any change will be subject to 30 day advance notification.
- Shipment of cores to our Core Return Centre constitutes acceptance of the above terms.



CORE STATEMENTS AND REPORTS

All customers receive a monthly core statement during the 1st week of each calendar month. You can request an updated core statement throughout the month by contacting Customer Service on core2@meritor.com

RETURNING CORES

- Meritor will pay the freight on one shipment per month of a minimum of 10 calipers or 4 carriers, except under special circumstances that are agreed in advance of shipment.
- Customers shipping more than one return per month must ship a minimum of 25 calipers or 10 carriers per return to qualify for additional collections, except in special circumstances that are agreed in advance of shipment.
- The core collection will be organised from the primary 'Ship to Address' location of the customers. The 'Ship to Address' will be as defined in the Meritor Core Returns Portal. It is the customer responsibility to collect the cores from their subsidiaries and branches to their 'Ship to Address'.
- The packing of the returned cores should guarantee good handling condition, avoid oil contamination and, where possible, include the original packaging.
- The packaging/containers of the returned cores will not be sent back to customers.

IMPORTANT NOTE

■ Customers should not include any items other than cores in these returns. Items returned not included in the Meritor core programme will not be credited and will not be sent back to customers.



CORE ACCEPTANCE GUIDELINES

- Cores should be returned to Meritor in 'off vehicle' condition and as received in exchange for a sale of a Meritor exchange or remanufactured product.
- Core returns that are obviously sourced from breakers yards, scrap yards or core brokers may be rejected.
- Based upon actual core condition, as received at Meritor, the percentages shown below will be deducted from the original core surcharge values.
- Cores with deduction will be available for inspection for a maximum of two weeks after the end of the month of return.

Calipers	% Deduction
Broken, cracked or damaged core housing	100%
Non original cores	100%
Core is not in an active core group within the Meritor product range	100%
Damaged or missing casting component (carrier, bridge, endplate, pushplate)	50%
Damaged or missing key component (eccentric, op-shaft, spline, potentiometer)	50%
Full core return (including all casting and key components) with no damage	0%

Refer to Section 5 – Core Quality Guidelines ▶

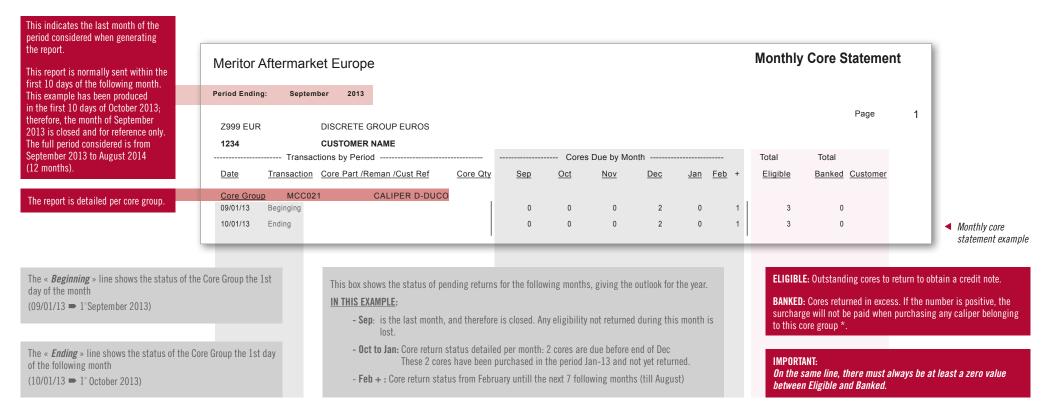


2. MERITOR CORE STATEMENT EXPLANATION

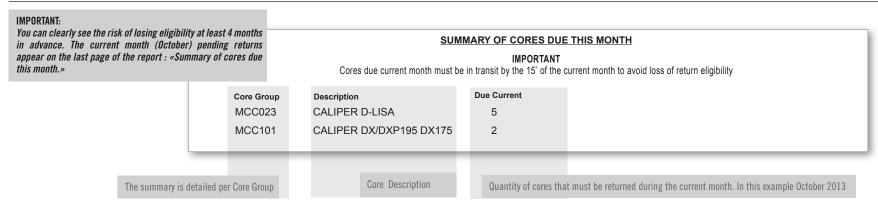
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The example above is used for explanation purpose but also show an existing situation: for the Core Group described above, there have been neither purchases nor returns during this month, therefore "Beginning" and "Ending" lines are consecutive and identical.



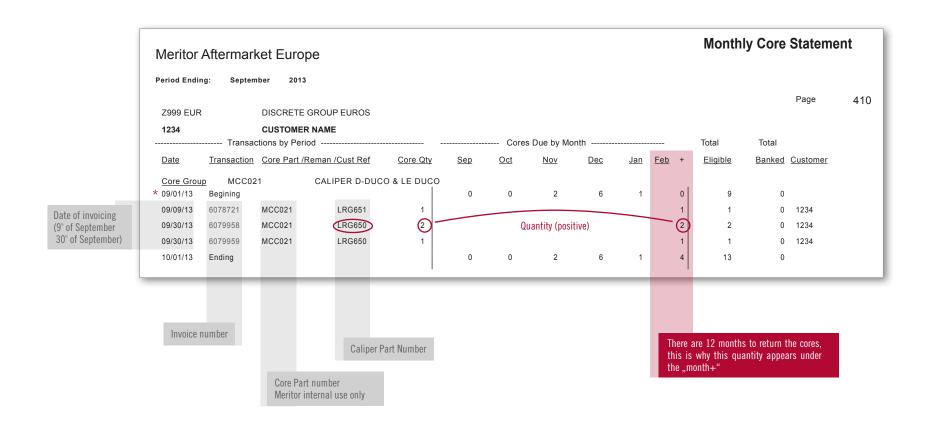
On the following pages, we'll provide you more examples of possible transactions.





Example 1: Simple Purchase

SIMPLE PURCHASE LINE: identified by the positive number as shown below



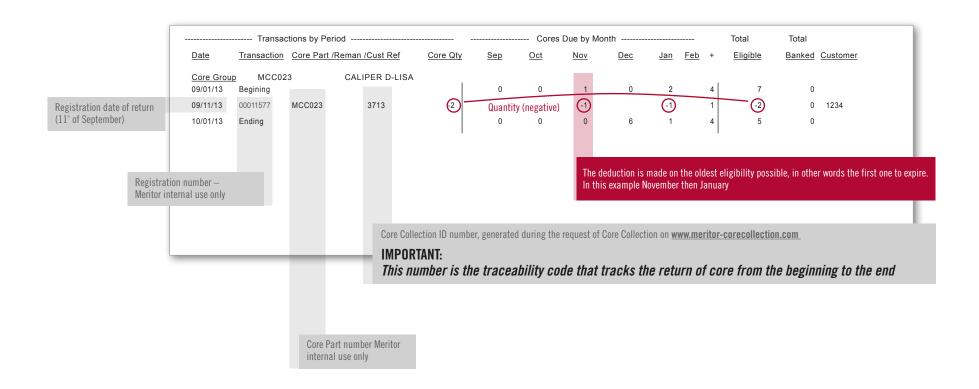
* IMPORTANT : Dates are in American format month / day / year

CORE STATEMENT EXPLANATION



Example 2: Simple Return

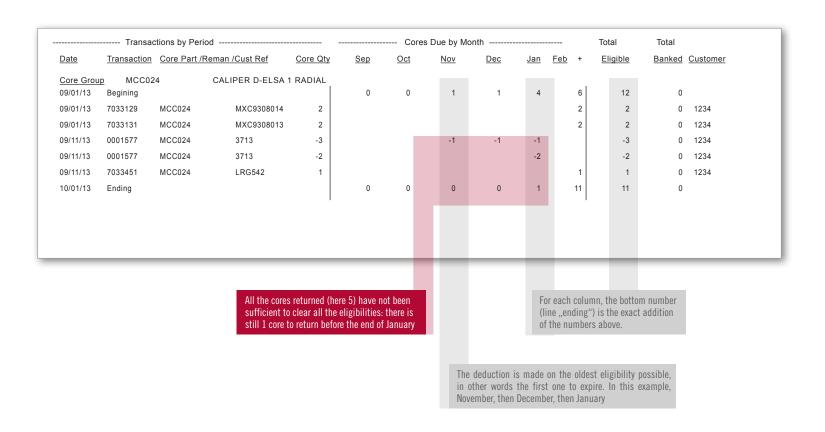
SIMPLE RETURN LINE: identified by the negative number as shown below





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Example 3: Combined Returns and Purchases



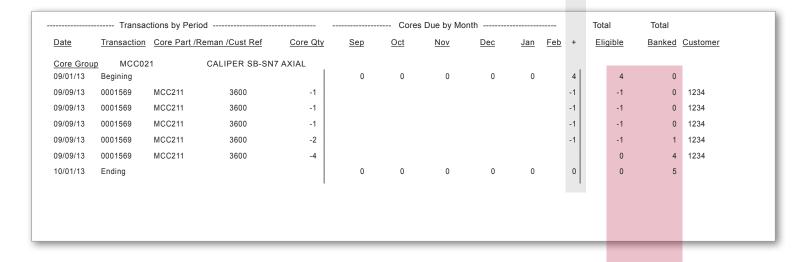
CORE STATEMENT EXPLANATION



Example 4: Creation of the bank

Core returns which exceed core eligibilities, will result in a core bank in units

There are 4 eligibilities at the beginning of the month but cores are returned in excess.



Once all the eligibilities are cleared, the quantities in excess are banked.

IMPORTANT

The bank quantity will decrease when a caliper belonging to the same Core Group is purchased and, in such a case, a surcharge will not be charged because a core had already been returned.



Example 5: Use of the bank

YOUR ADVANTAGES OF BANKING CORES:

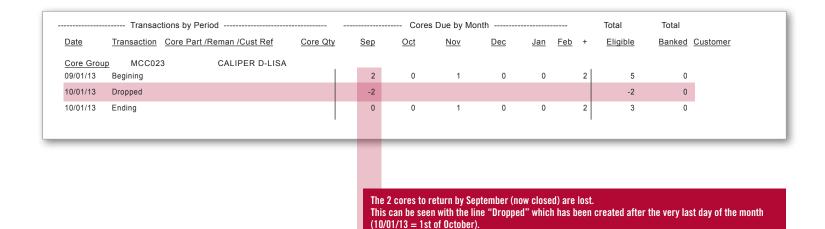
When a core group shows a bank, it means that you will not pay the surcharge for your future purchase of calipers of this group, untill the bank quantity is exhausted.

	Transa	ctions by Pe	riod			Core	s Due by Mo	onth				Total	Tota	al
<u>Date</u>	Transaction	Core Part	/Reman /Cust Ref	Core Qty	<u>Sep</u>	Oct	Nov	Dec	<u>Jan</u>	<u>Feb</u>	+	Eligible	<u>Ban</u>	ked Customer
Core Grou	up MCC02	21	CALIPER C-DUC	O & LE DUCO										
09/01/13	Begining				0	0	0	0	0		0	-	0	5
09/09/13	6078716	MCC021	LRG651	2								-	0	-2 1234
09/09/13	6078717	MCC021	LRG651	1								-	0	-1 1234
09/30/13	6079867	MCC021	LRG650	2								(0	-2 1234
09/30/13	6079938	MCC021	LRG650	1							1		1	0 1234
09/30/13	6079940	MCC021	LRG650	1							1		1	0 1234
09/30/13	6079941	MCC021	LRG650	1							1		1	0 1234
09/30/13	6079942	MCC021	LRG650	1							1		1	0 1234
10/01/13	Ending				0	0	0	0	0		4		4	0
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oar to have	the same calip	or part num	hor and											
	be identical. H													
	l as many invoi													
				9 ca	lipers were	purchased	during the r	nonth. As th	ere are					
							narges were (
													The month	ı started with 5 in banl
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													for return.	

CORE STATEMENT EXPLANATION



Example 6: Loss of eligibility





3. SCHEDULING CORE RETURNS

How To Schedule A Core Return

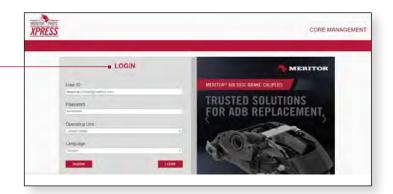
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How To Schedule A Core Return

1. Visit **MeritorCoresOnline.com** and sign into your account.



2. Hover over Core Return and select Core Return Scheduling.



3. To start a new return, click **Create New Return**.

If you started a return and saved it (did not submit), it will not appear on this page. Click on **Return Number** to continue work on that return.





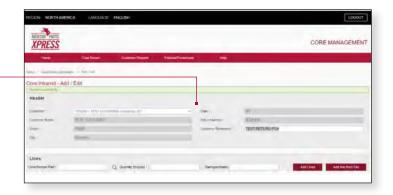
4. Enter information in the required fields within the **Header** section (**Customer** and **Customer Reference**).

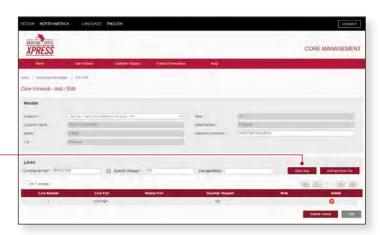
The **Customer Reference** number entered will appear on credit notes generated by Cummins-Meritor as a result of the return. Data is automatically saved once you tab to the **Lines** section.

5. In the **Lines** section, enter the Cummins-Meritor core part number and quantity being returned then click **Add Line**.

Repeat these steps for each core part being returned.

For No Hassle Brake Core Returns, enter BRKCORE as the core part and then the total number of brake cores being returned.





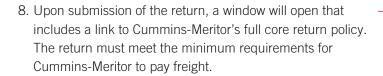


6. Review all return lines to confirm accuracy.

To edit a line, you must delete the original line and re-enter the information.

7. Once complete click **Submit Return**.

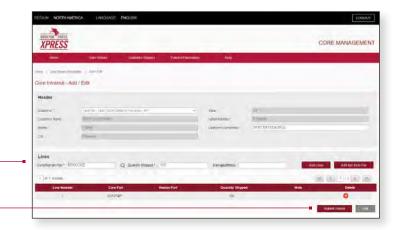
If you exit at this point the return is automatically saved. The return can then be opened and completed later.

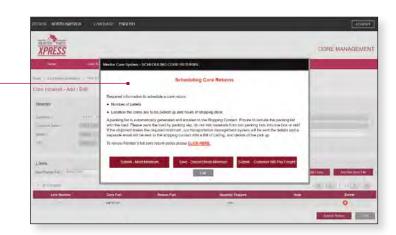


If return meets the minimum select **Submit – Meets Minimum**. MCO will send you to the scheduling page.

To save the return to add more cores to it at a later date and then submit, select **Save – Doesn't Meet Minimum**.

If the return does not meet the minimum and you want to arrange transportation to Cummins-Meritor at your expense, select **Submit – Customer Will Pay Freight**. A packing list will be generated and emailed to you.







Complete all fields in the Pick Up Location section and hit Save.

The option is available to pick up the cores at a different address. If the cores are to be picked up at an alternate location, click **Clear/Enter New Address**. Standard shipping dock hours are available in the drop down or select **Other** to enter specific hours.

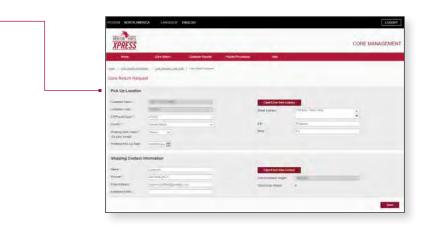
Shipping Contact Information is pre-populated based on your user ID. The email address provided will receive the Bill of Lading and Packing List to be used for the return.

10. In the **ADD – Shipping Information section**, enter the skid count.

MCO will distribute the total weight across the skids. Standard skid dimensions are pre-populated, but can be overwritten.

Click Schedule Pick Up.

Only one line is required if skid sizes are uniform. If using more than one size, please enter one line per skid size and adjust weight to approximate value per line.





IMPORTANT: Your core return is now scheduled for pick up. The email address provided in the **Shipping Contact Information** will receive a Packing List immediately from **MeritorCoresOnLine.com**. Once the return is scheduled by our transportation team, a BOL will be emailed, along with an email advising the date and time the core shipment will be picked up, as well as the freight carrier name.

SCHEDULING A CORE RETURN



Identify Meritor Core Part Number Using Product Line

Option 1: Product Line Filter - Product Line

1. Click on the magnifying glass beside the Product Line box to view all available products in your region.



2. Select the **Product Line**. (e.g. Air Systems)

3. Click the magnifying glass by the Core Part field in the Lines section. It will return a list of only the selected product line core part numbers based on your account's purchase history.



Option 2: Product Line Filter - Core Group

1. Enter core part or use partial core part with a wildcard (*) and search using the magnifying glass.

2. In the lines section click the magnifying glass beside the Core Part field and it will return a list of Core Parts that are in that Core Group.



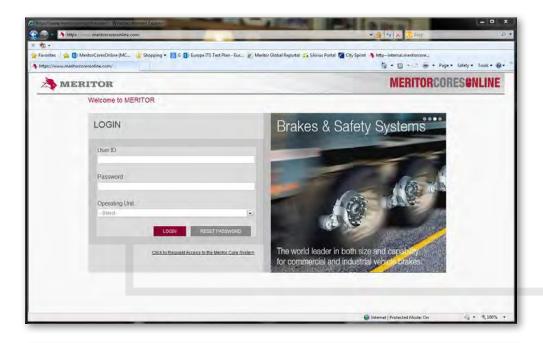


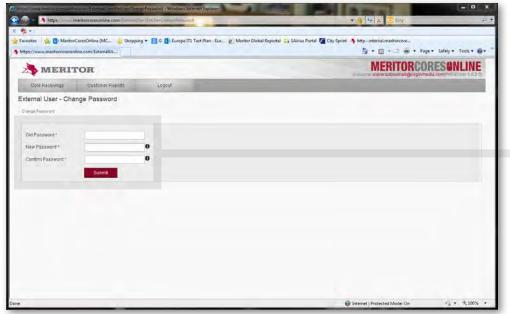
4. MERITOR CORES ONLINE USER GUIDE

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Customer History Report	30









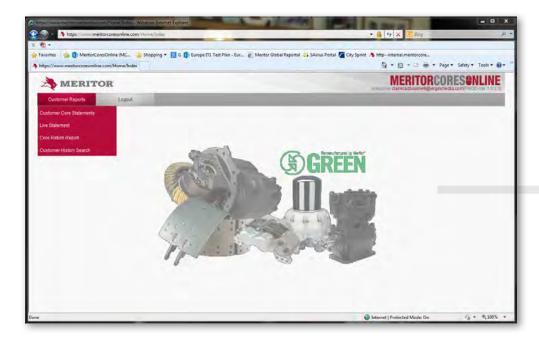
Enter your User ID and Password – Operating Unit will default to Europe

Click **LOGIN**

The first time you log in you will be asked to change your password

Once you have entered a new password click **SUBMIT**





After clicking on **SUBMIT** you will automatically be taken to this main menu screen



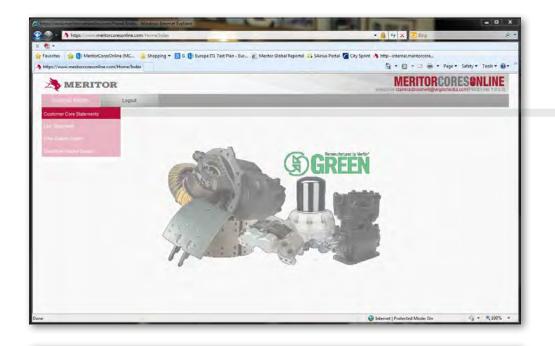
Click on Customer Reports – You will see you have a choice of 4 reports

- Customer Core Statement is the report you receive at the beginning of the month
- Live Statement shows you a more basic view of the core statement
- Core Return Report allows you to see the details of a specific core return. It shows you what has been accepted/rejected/banked
- Customer History Search shows you by date what calipers/diffs you have purchased, the value you were invoiced for the core, if you have returned the core, the credit note number, if the core was dropped and also if the core is still eligible for return

CORES ONLINE USER GUIDE

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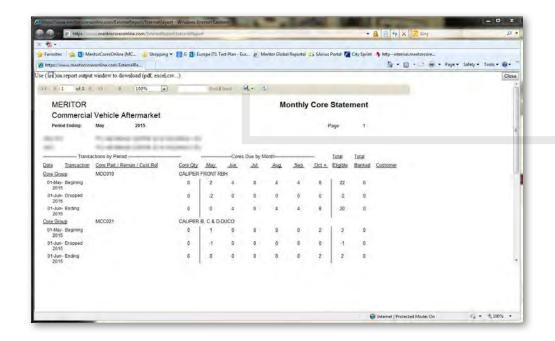
This example shows you how to run the Customer Core Statement

Click on Customer Core Statement

- 1) Click on drop down box and click on your account number
- 2) Choose the Report Period you want the statement for here
- 3) Click on View Request

Your report will open in a new window from which you can download your report into Excel, Word or a pdf





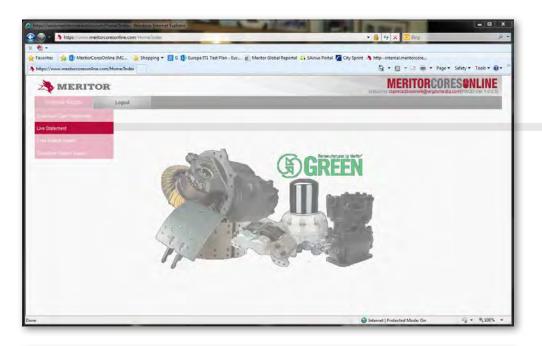
To down load your report click on the download icon, this will give you a list of file types you can download to



CORES ONLINE USER GUIDE

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This example shows you how to run the Live Statement

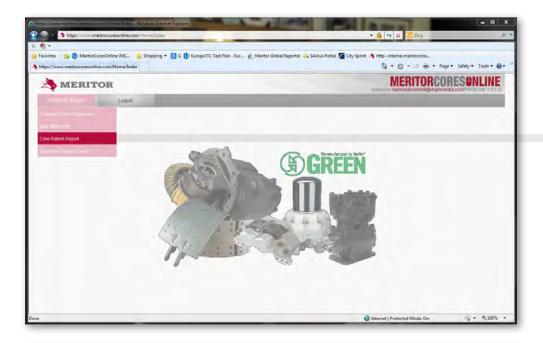
Click on Live Statement

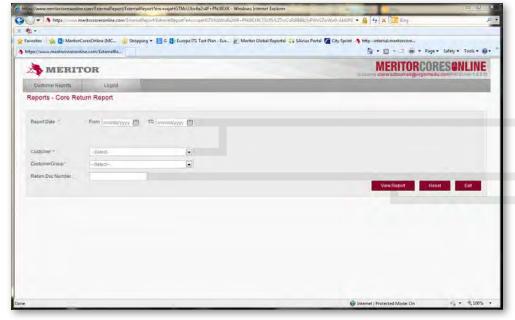
1) Click on drop down box and click on your account number

3) Click on View Report

Your report will open in a new window from which you can download your report into Excel, Word or a pdf in the same way as the Customer Core Statement







This example shows you how to run the Core Return Report

Click on Core Return Report

With this report you can run it by date or by unique Return Doc Number. The unique Return Doc Number will always start with the letter 'i'

You can obtain your Return Doc Number by doing one of the following:

- 1) Email your Request ID number to core2@meritor.com
- 2) Running a Customer History Search
- 3) The main body of the credit note

To run by date enter the date range and click on your customer number

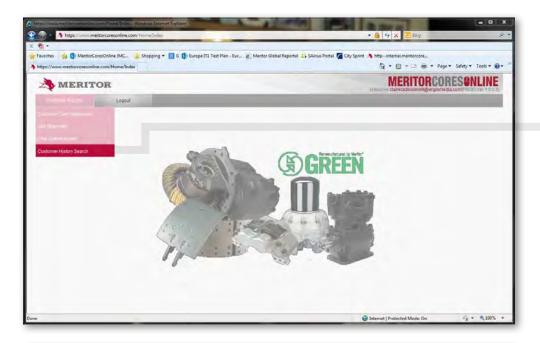
To run by Return Doc Number you only need to enter the reference number

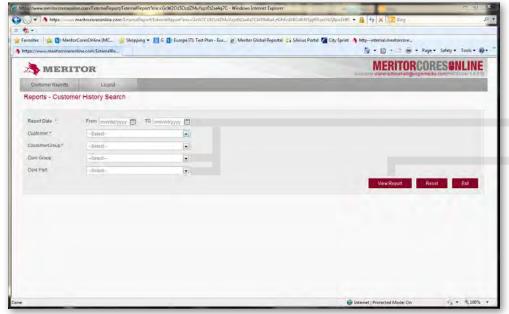
Click View Report

Your report will open in a new window from which you can download your report into Excel, Word or a pdf in the same way as the Customer Core Statement

CORES ONLINE USER GUIDE







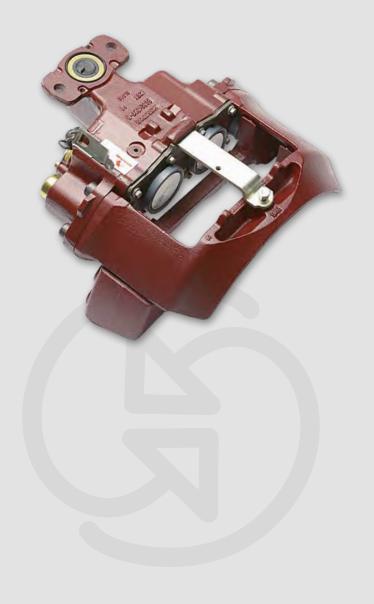
This example shows you how to run the Customer History Report

Click on Customer History Search

This report allows you to run it by date range, core group or core part

Once you have entered your parameters click View Report

Your report will open in a new window from which you can download your report into Excel, Word or a pdf in the same way as the Customer Core Statement



5. CORE QUALITY GUIDELINES

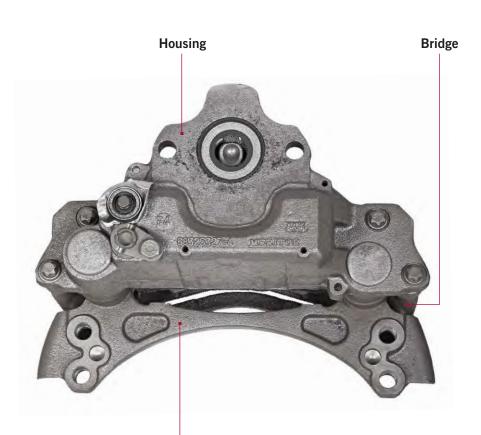
CORE COMPONENTS:	
Meritor core casting components	32
Knorr core casting components	33
FAIL MODES:	
0% Acceptance = Meritor will credit 0% of surcharge value.	
Damage to housing or non-original cores.	
External surface damage	34
Breaks, cracks and other damage	40
Grinding damage	45
Modifications	51
Competitor cores	52
50% Acceptance = Meritor will credit 50% of surcharge value.	
Damage to, or missing, bridge, carrier, endplate, key components.	
Damage	53
Breaks and cracks	57
Miscellaneous	58
100% Acceptance = Meritor will credit 100% of surcharge value.	
Full core return (housing, endplate, carrier, key components) with no damage.	
Damage	50





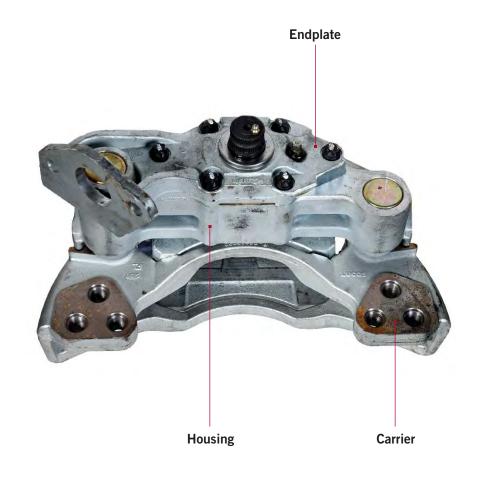
Meritor Core Casting Components:

Configuration A (Housing, bridge, carrier)



Carrier

Configuration B (Endplate, housing, carrier)

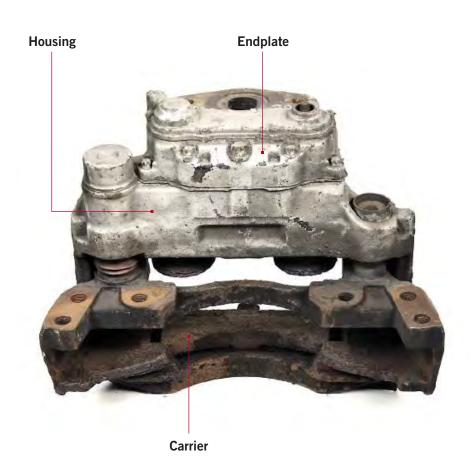




Knorr Core Casting Components:

Knorr SB variant (Endplate, housing, carrier)

Knorr SN variant (Housing, carrier)







Fail modes: 0% Acceptance — Meritor will not accept core with damaged housing or non-original cores.

EXTERNAL SURFACE DAMAGE TO HOUSING - EXAMPLES



External surface damage to Knorr housing



External surface damage to Knorr housing close up



External surface damage to Knorr housing close up



Fail modes: 0% Acceptance — Meritor will not accept core with damaged housing or non-original cores.

EXTERNAL SURFACE DAMAGE TO HOUSING – EXAMPLES



External damage to DUCO housing close up



Surface damage to Knorr housing

External damage to DUCO housing



Fail modes: 0% Acceptance — Meritor will not accept core with damaged housing or non-original cores.

EXTERNAL SURFACE DAMAGE TO HOUSING - EXAMPLES



External surface damage to Knorr housing



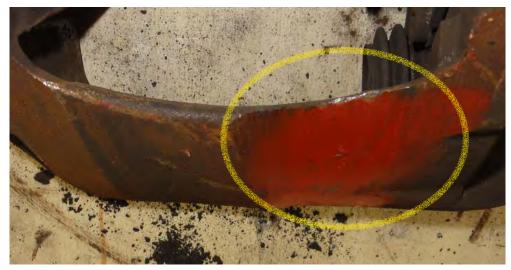
Surface damage to Knorr housing



Surface damage to housing



EXTERNAL SURFACE DAMAGE TO HOUSING - EXAMPLES



External surface damage to Knorr housing



Surface damage to Knorr housing



External surface damage to Knorr housing



Surface damage to Knorr housing



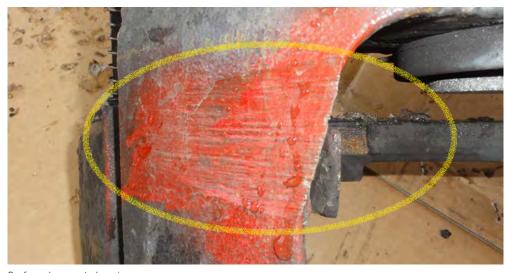
EXTERNAL SURFACE DAMAGE TO HOUSING - EXAMPLES



Surface damage to housing



Surface damage to Meritor housing



Surface damage to housing



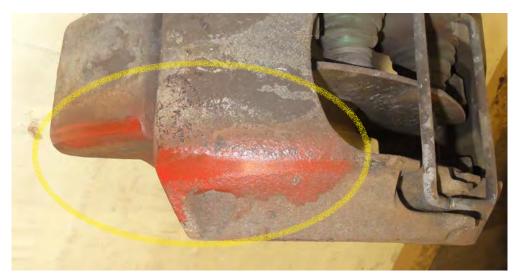
Surface damage, grinding to Knorr housing



EXTERNAL SURFACE DAMAGE TO HOUSING - EXAMPLES



Damage to corner face of DUCO housing



Damage to housing DX195





Broken housing DUCO



Broken housing DUCO



Broken housing DUCO

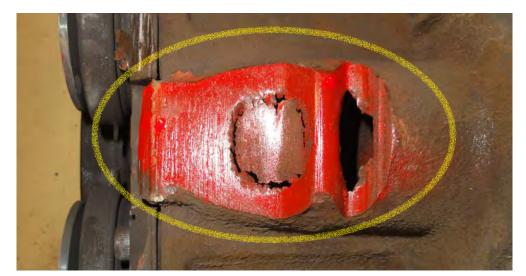


Broken housing DUCO





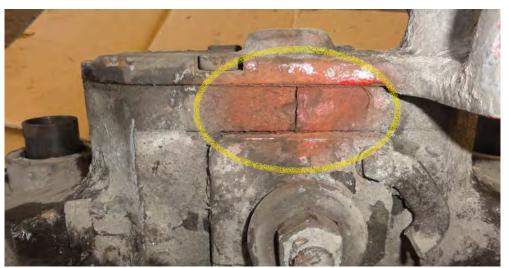
Damage to ELSA225 housing



Damage to ELSA225 housing close up



Damage to ELSA225 housing close up



Cracked housing





Housing cracked DX225



Damaged / dented housing Knorr



Damage to slide pin bore on housing

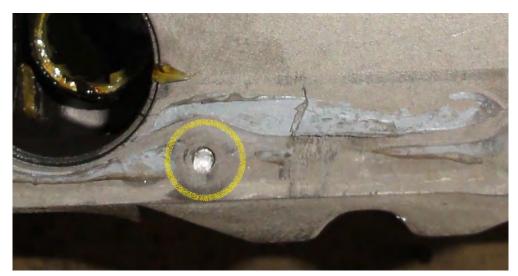


Housing exposed to fire damage / gas axe





Broken bolt in housing



Broken bolt in housing



Broken bolt in housing

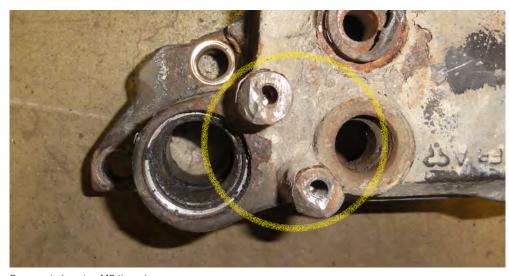




Damage to ELSA2 housing actuator face



Damage to ELSA2 housing adjuster hole



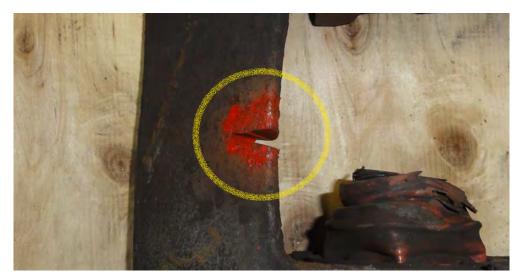
Damage to housing M8 threads



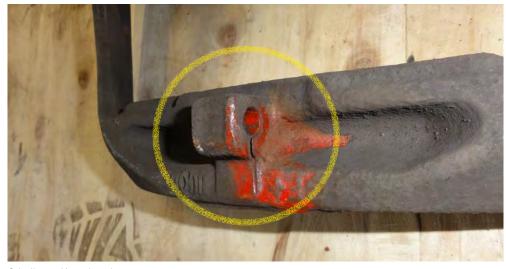
GRINDING DAMAGE TO HOUSING - EXAMPLES



Grinding to Knorr housing



Grinding to Knorr housing close up



Grinding to Knorr housing



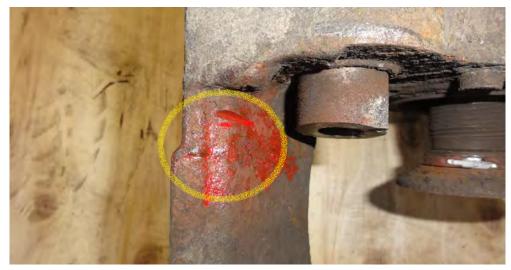
Grinding to Knorr housing close up



Grinding to Knorr housing close up



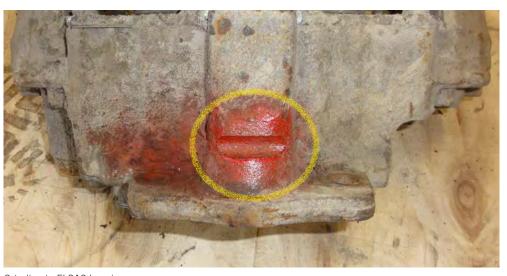
GRINDING DAMAGE TO HOUSING - EXAMPLES



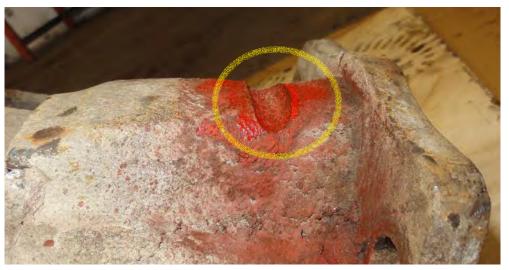
Grinding to Knorr housing



Grinding to Knorr housing



Grinding to ELSA2 housing



Grinding to ELSA2 housing



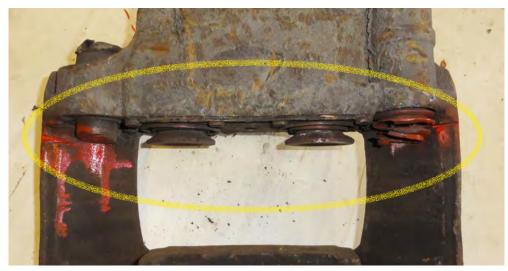
GRINDING DAMAGE TO HOUSING – EXAMPLES



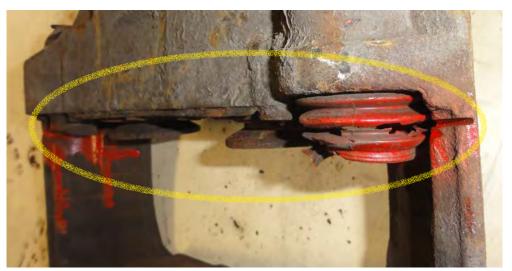
Grinding to DUCO housing



Grinding to DUCO housing



Grinding to Knorr housing



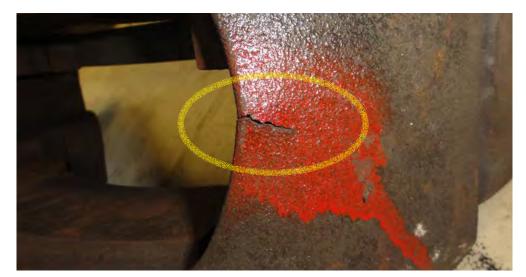
Grinding to Knorr housing



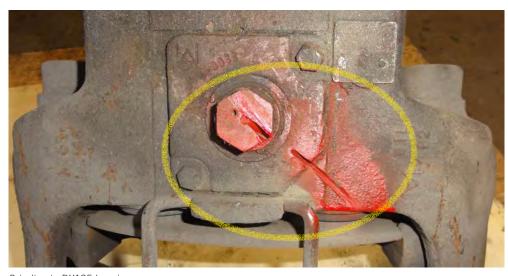
GRINDING DAMAGE TO HOUSING - EXAMPLES



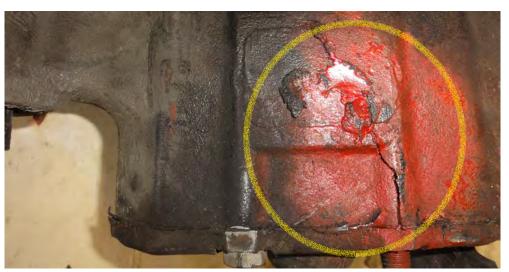
Grinding to Knorr housing



Grinding to DX195 housing



Grinding to DX195 housing



Grinding to DX195 housing and top cover



GRINDING DAMAGE TO HOUSING – EXAMPLES



Grinding to Knorr housing



Grinding to Knorr housing



Grinding to Knorr housing



Grinding to Knorr housing



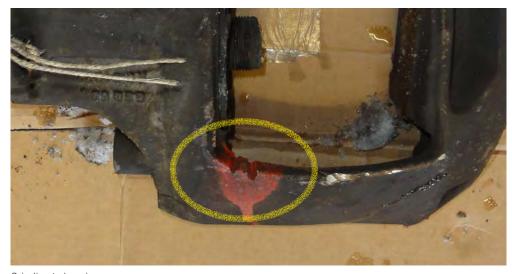
GRINDING DAMAGE TO HOUSING - EXAMPLES



Grinding damage to Knorr housing



Grinding to housing



Grinding to housing



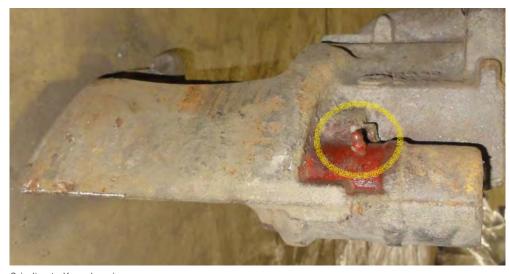
MODIFICATIONS TO HOUSING - EXAMPLES



Grease nipple added to housing



Grease nipple added to housing



Grinding to Knorr housing



Fail modes: 0% Acceptance — Meritor will not accept non-original cores as core return.

COMPETITOR CORES - EXAMPLES

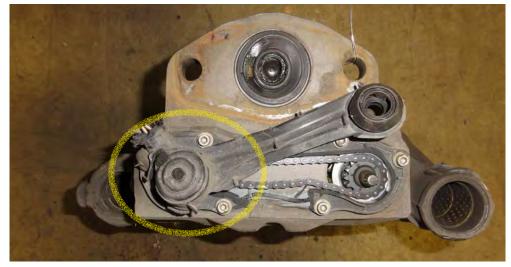


Competitior copy (none original) core returned by customers



Competitior copy (none original) core returned by customers





Damage to potentiometer



Damage to DUCO endplate hole



Damage to DUCO endplate sensor hole



Damage to DUCO endplate sensor hole

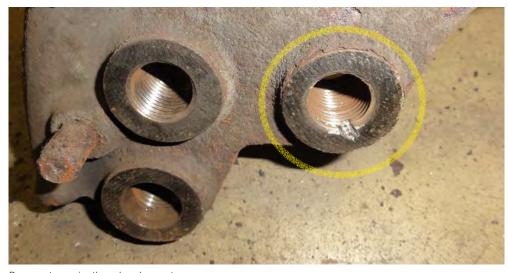




Damage to endplate op shaft hole / actuator hole



Damage to carrier slide pin ring



Damage to carrier thread and mount



Damage to carrier location pin





Damage to bridge hole



Severe damage to bridge hole



Damage to pad retainer hole and bridge hole



Damage to pad retainer hole and bridge hole close up





Damage to bridge ELSA2



Damage to bridge ELSA2



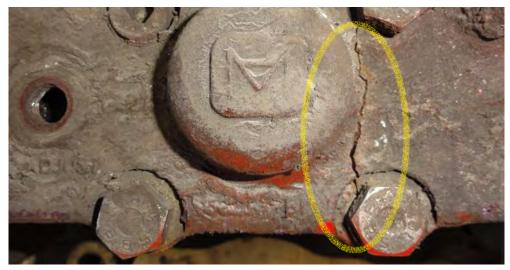
Damage to bridge ELSA2



Clear 'non operational' damage to carrier abutments



BREAKS AND CRACKS - EXAMPLES



Cracked endplate DX225



Cracked endplate DX225



MISCELLANEOUS - EXAMPLES



Internal components missing from housing



Push plates must be returned with core (MCC023 and MCC025)



DAMAGE TO CASSETTE COVER ONLY - EXAMPLES



Damaged cassette cover



Damaged cassette cover





6. MERITOR CORE GROUPS PRODUCT IDENTIFICATION

CORE GROUP	CALIPER TYPE	
MCC021	DUCO Axial Standard (D-DUCO)	62
MCC021	DUCO Axial Standard (C-DUCO + LE-DUCO)	63
MCC022	DUCO Axial Flip (D-DUCO)	64
MCC022	DUCO Radial	
MCC023	C/D LISA	66
MCC024	ELSA1	67
MCC025	D3	68
MCC061	ELSA2	69
MCC063	ELSA195	70
MCC064	ELSA225	7
MCC065	ELSA225 WR	72
MCC101	DX175/195	73
MCC102	DX225	74
MCC201	Knorr SB/SN6	7!
MCC202	Knorr SB/SN6 with carrier	70
MCC203	Knorr SK7	7
MCC211	Knorr SB/SN7	78
MCC212	Knorr SB/SN7 with carrier	79
MCC213	Knorr SM/SL	80
MCC221	Knorr SB7 Radial	8

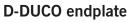


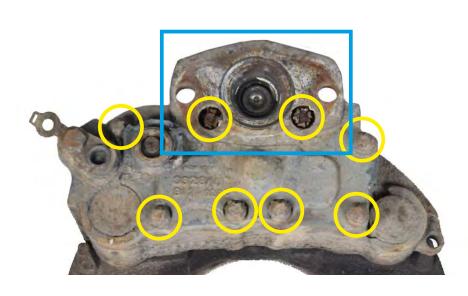


MCC021 DUCO Axial Standard (D-DUCO)

- D-DUCO Axial defined by 8 endplate bolts ■
- B-DUCO has rectangular endplate face ■
- Adjuster hole same side as large bore ■





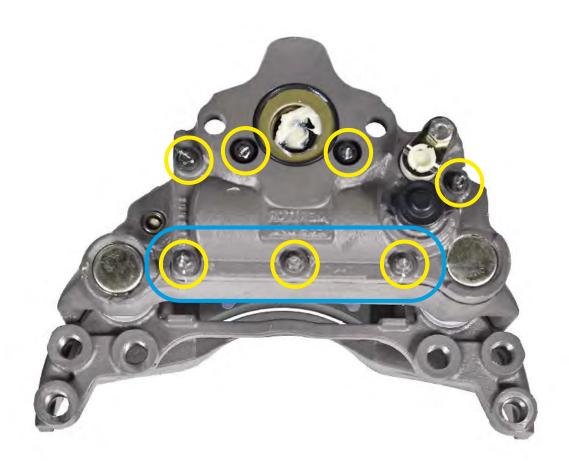


B-DUCO endplate



MCC021 DUCO Axial Standard (C-DUCO + LE-DUCO)

- DUCO Axial defined by 7 endplate bolts ■
- 3 of 7 bolts at bottom of endplate face ■





MCC022 DUCO Axial Flip (D-DUCO)

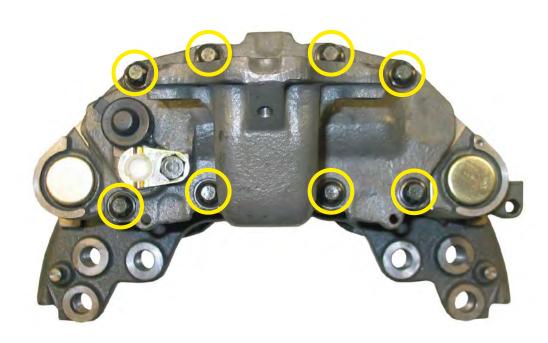
- D-DUCO Axial flip defined by 8 endplate bolts ■
- Adjuster hole opposite side as large bore ■

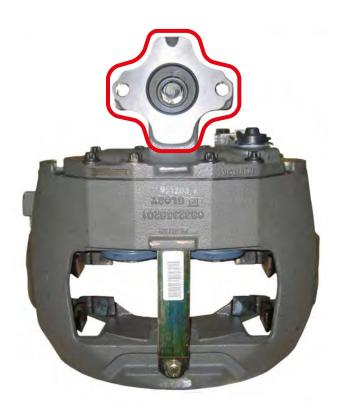




MCC022 DUCO Radial

- DUCO Axial defined by 8 endplate bolts ■
- Radial endplate is perpendicular ■







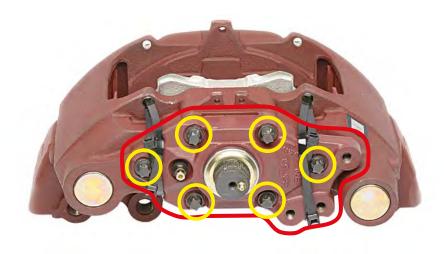
MCC023 C-LISA and D-LISA

KEY FEATURES:

■ LISA family defined by 6 endplate bolts ■



C/D-LISA endplate – Type 1



C/D-LISA endplate – Type 2

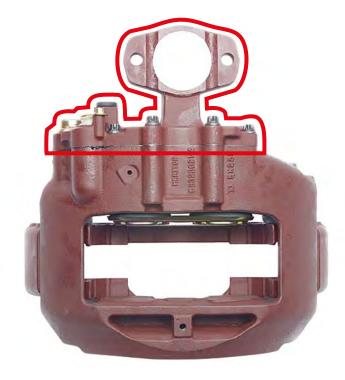


MCC024 ELSA1

- ELSA1 family defined by 9 endplate bolts ———
- Radial housing is perpendicular ■



ELSA1 Axial





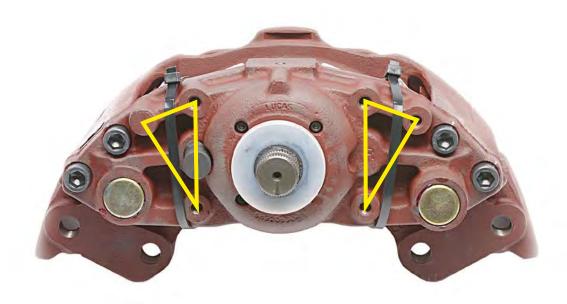
ELSA1 Radial



MCC025 D3

KEY FEATURES:

■ D3 family defined by triangular machining formation on housing face ■





MCC061 ELSA2

KEY FEATURES:

- ELSA2 family defined by 4 socket head bridge bolts ——
- Rectangular housing face ■
- Radial housing is perpendicular ■



ELSA2 Axial ELSA2 Radial



MCC063 ELSA195

KEY FEATURES:

■ ELSA195 family defined by 4 Torx head bridge bolts ——

■ Rosette housing face ■

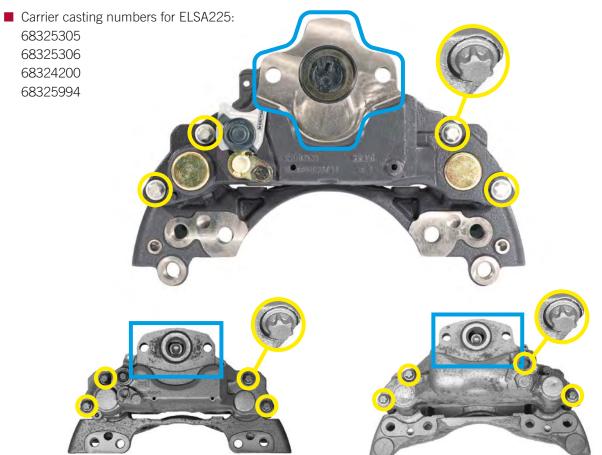
Carrier casting numbers for ELSA195: 68324660 68325353



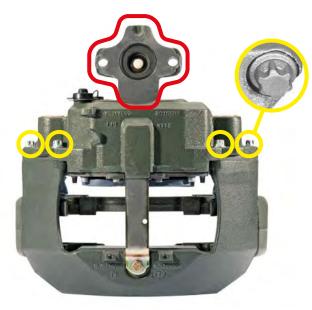


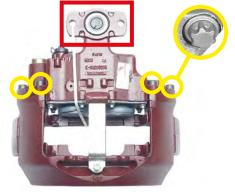
MCC064 ELSA225

- ELSA225 family defined by 4 Torx head bridge bolts ——
- Rosette housing face or rectangular housing face ■
- Radial housing is perpendicular ■



ELSA225 Axial Types





ELSA225 Radial Types

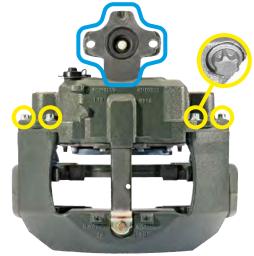


MCC065 ELSA225 WR

KEY FEATURES:

- ELSA225 families defined by 4 Torx head bridge bolts ——
- New WR caliper defined by sharper actuator face machined profile ■
- New WR calipers defined by single machined carrier face profile ■ ■

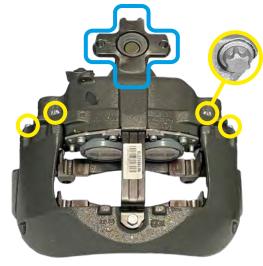
Current ELSA225







New ELSA225 WR









MCC101 DX175/195

- DX175/195 family defined by top cover and op-shaft ——
- DX195 end plate shown below ■



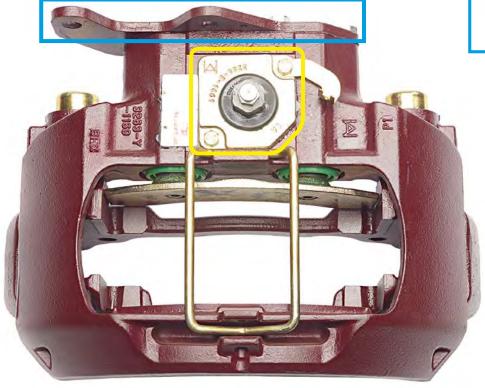




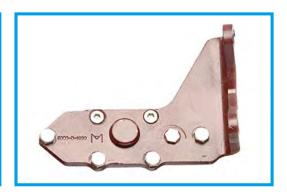


MCC102 DX225

- DX225 family defined by top cover and op-shaft ■
- End plate variations shown below ■







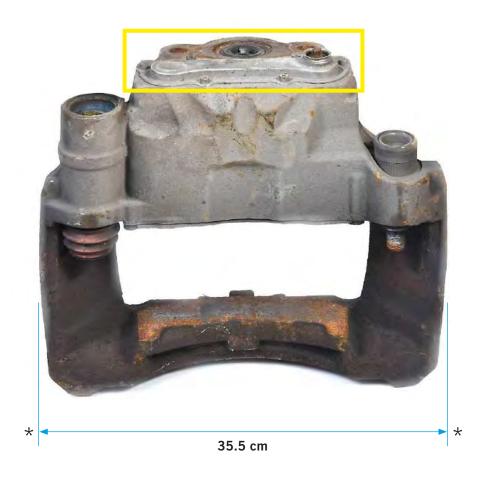


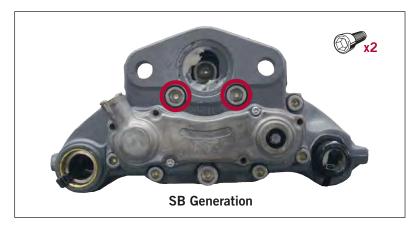


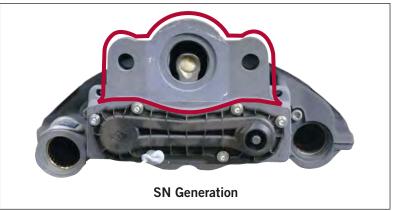


MCC201 Knorr SB/SN6

- Knorr S6 family defined by plastic/metal cover with/without potentiometer ———
- Casting measurement = 35.5 cm*







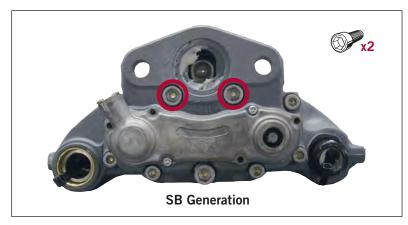
Knorr endplate/housing detail SB6/SN6



MCC202 Knorr SB/SN6 with carrier

- Knorr S6 family defined by plastic/metal cover with/without potentiometer ———
- Casting measurement = 35.5 cm*
- Includes a carrier ■







Knorr endplate detail SB6/SN6



MCC203 Knorr SK7

- Knorr SK7 family defined by plastic/metal cover with/without potentiometer
- Casting measurement = 37.5 cm*
- With/without carrier



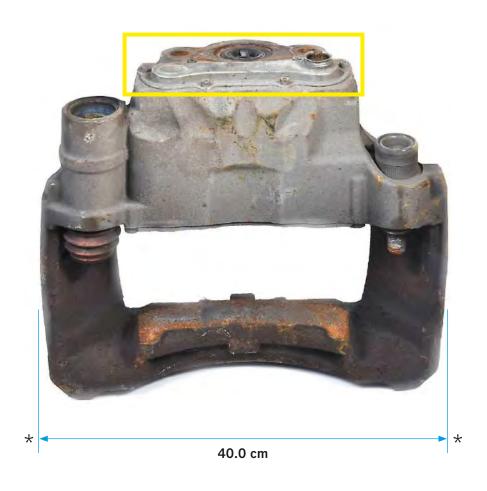


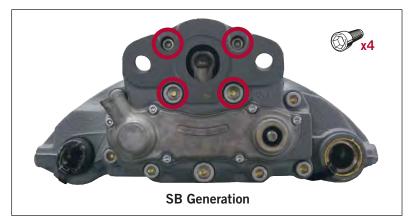
Knorr endplate detail SK

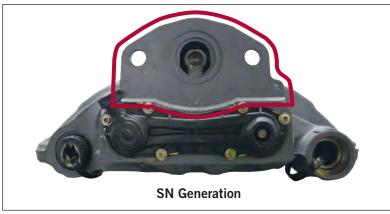


MCC211 Knorr SB/SN7

- Knorr S7 family defined by plastic/metal cover with/without potentiometer ■
- Casting measurement = 40.0 cm*







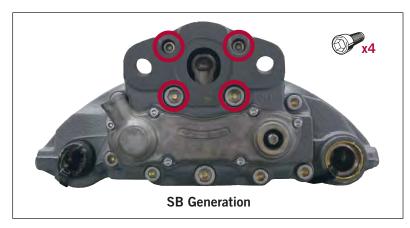
Knorr endplate detail SB7/SN7

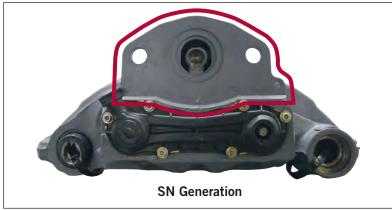


MCC212 Knorr SB/SN7 with carrier

- Knorr S6 family defined by plastic/metal cover with/without potentiometer ———
- Casting measurement = 40.0 cm*
- Includes a carrier ■







Knorr endplate detail SB7/SN7



MCC213 Knorr SM7 & SL7

- 0 Degree or 12 degree (sloping) actuator face ■
- Defined by casting numbers 30G, 31G, 30F, 31F, 32, 33, 50, 51



















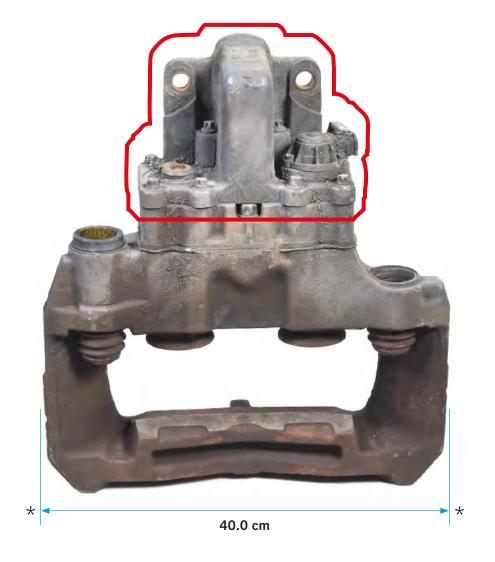


MCC221 Knorr SB7 Radial

KEY FEATURES:

■ Radial endplate is perpendicular ■

■ Casting measurement = 40.0 cm*





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CALIPER CORE MANUAL

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