



Lynx 40 Centrifuge Inspection Report -- NEW STYLE

18405067634

ALFA LAVAL LYNX 40 CENTRIFUGE INSPECTION REPORT

Job Information

Job Number	J-3844
Inspected By	Roberto
Date Inspected	Jun 2, 2025
Serial Number	xxx-xxx
Does unit have a gearbox	Yes
↳ Gearbox make/model	↳ 6.0
Take a picture of entire unit before disassembly.	



Inspection Summary

General Comments on Condition of Unit

Unit arrived with several issues on solid end of conveyor. There are stack up issues that must be repaired.

Technical Data

Measure Center of Main Motor Shaft to center of Main Pulley, document.

RA wasn't on the skid

Main Belt Size

Xpb2120

Main Motor Frame Size

Lynx 40 design

Main Motor Shaft Size

2 3/8

Main Pulley Diameter

18inch

Main Pulley # of Ribs and Grooves

5

Measure Center of Back Drive Pulley to Center of Back Drive Motor Shaft, document. If applicable

Coupling

Back Drive Motor HP

20

Back Drive Motor Frame Size

Lynx 40 design

Back Drive Motor Shaft Size

1 7/8

Back Drive Belts, If applicable.

Coupling

Back Drive Coupling Size, if applicable.

Lynx 40 design

Gear Box Pinion Size

19mm

SKID**SKID**

SKID

↳ **Measurements or Notes**

Repair

↳ **Paint**

VIBRATION ISOLATORS

VIBRATION ISOLATORS

OK

CASE

Case Condition ↳ Measurements or Notes	Repair ↳ Nordbak
CASE GASKET	
Case Gasket Condition ↳ Measurements or Notes	Replace ↳ Replace gasket
CASE CLAMPS	
Case Clamp Condition	OK
FEED TUBE	
Feed Tube Condition ↳ Measurements or Notes	Replace ↳ Came in with no feed tube
FEED TUBE SUPPORT	
Feed Tube Support Condition	OK
BELT GUARD	
Belt Guard Condition	OK
GEAR GUARD	
Gear Guard Condition	OK
MAIN MOTOR	
Main Motor Condition	OK
MAIN MOTOR BASE	
Main Motor Base Condition	OK

MAIN PULLEY**Main Pulley Condition** OK**MAIN MOTOR BUSHING FOR PULLEY****Main Motor Bushing for Pulley Condition** OK**MAIN DRIVE BELT****Main Drive Belt Condition** OK**BACK DRIVE MOTOR****Back Drive Motor Condition** OK**BACK DRIVE MOTOR BUSHING****Back Drive Motor Bushing Condition** OK**BACK DRIVE COUPLING****Back Drive Pulley Condition** OK**PINION SIDE BACK DRIVE BUSHING****Back Drive Pulley Condition** OK**MAIN MOTOR CABLE****Main Motor Cable** OK**BACK DRIVE MOTOR CABLE****Back Drive Motor Cable** OK**FORK LIFT POCKETS**

Back Drive Motor Cable	OK
CABLE RACK	
Back Drive Motor Cable	OK
SOLID END HOPPER	
Back Drive Motor Cable	OK
LIQUID END HOPPER	
Back Drive Motor Cable	OK
SENSORS	
Back Drive Motor Cable	OK
MOTOR GLANDS	
Back Drive Motor Cable	OK
PLUGS	
Back Drive Motor Cable	OK
BOWL (MARK FLANGES TO INSURE CORRECT REASSEMBLY)	
Solid End Fit	
Solid End Fit (7.4935 - 7.4925) ↳ Measurements or Notes	Repair ↳ Remove egg shape

Pictures**Liquid Head Fit****Liquid End Fit
Pictures**

OK

**Carbide Nozzles (8)****Carbide Nozzles (8)**

OK

Carbide Plows (2)**Carbide Nozzles (8)**

OK

Bowl Strips

Bowl Strips Pictures

OK



Bowl Condition

Section C to Conical

OK

Wear Ring

Section C to Conical Pictures

OK



CONVEYOR

Tiles

Tiles

OK

Pictures**Flights****Flights**

OK

Pictures**Liquid End Spline Hub Fit****Solid End Bearing Area**


OK

Pictures**Spline Hub Condition****Spline Hub Condition**

OK

Pictures**Spline Hub Fit****Spline Hub Condition**

OK

Pictures		
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Conveyor Housing Fit


Conveyor Housing Fit	OK
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Liquid End Housing Fit

Liquid End Housing Fit	OK
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Thrust Bearing Area

Thrust Bearing Area	OK
Pictures	

NU Bearing Area		
NU Bearing Area Pictures	OK	
Spline Hub Pins		
Spline Hub Pins	OK	
Shim		
Shim	OK	
Liquid End Seal Holder		
Liquid End Seal Holder Pictures	Replace	



NU Bearing Area

NU Bearing Area

OK

NU Snap Ring

NU Snap Ring

OK

Liquid End Seal Holder

Liquid End Seal Holder

Replace

Seal Holder Snap Ring

Seal Holder Snap Ring

OK

Thrust Collar

Thrust Collar

Replace

Pictures**Pins From Spline Hub****Pins From Spline Hub**

OK

Solid End Protecting Tube Condition**Solid End Protecting Tube Condition**

Replace

Pictures**Solid End Protecting Tube Pin****Solid End Protecting Tube Pin**

Replace

Puller Disc Solid End

Puller Disc Solid End
Pictures

Replace



Spring Spacers- Solid End

Spring Spacers- Solid End
Pictures

Replace



Flat Spacers Solid End

Flat Spacers Solid End

OK

Thrust Bearing Housing Solid End

Thrust Bearing Housing Solid End

Replace

Pictures



Needle Bearing Area- Solid End

Needle Bearing Area- Solid End OK

Protecting Tube Bushing Area

Protecting Tube Bushing Area Replace

Lock Ring Condition

Protecting Tube Bushing Area Replace
Pictures



Lock Nut Condition

Lock Nut Condition

Replace

Seal Holder Solid End

Seal Holder Solid End

Replace

Pictures



LIQUID HEAD

LE Head Fit

LE Head Fit

↳ **Measurements or Notes**

Pictures

Repair

↳ **Weld and machine fit**



Throw Off Disc

Throw Off Disc

OK

Pictures**Ring Case Condition****Ring Case Condition**

OK

Pictures**Grease Ring****Grease Ring**

OK

Pillow Block Cover**Pillow Block Cover**

OK

Pillow Block Spacer**Pillow Block Spacer**



OK


Pictures**Pillow Block V ring****Pillow Block V ring
Pictures**

OK

**Main Bearing Area****Main Bearing Area**

OK

Pictures		
Gear Flange Inboard Fit		
Gear Flange Inboard Fit	OK	
Gear Flange Outboard Fit		
Grease Ring (0.483 - 0.500)	OK	
Dam Plates Condition		
Dam Plates Condition	OK	
Pictures		
Dowel Pin Condition		
Dowel Pin Condition	OK	
Inboard Seal Area		

<div><div>Inboard Seal Area</div><div>Pictures</div></div>		OK	
Outboard Seal Area			
<div><div>Outboard Seal Area</div></div>		OK	
Conveyor Bearing Area			
<div><div>Conveyor Bearing Area</div></div>		OK	
Spline Condition			
<div><div>Spline Condition</div></div>		OK	

Pictures**SOLID HEAD****Solid Head Fit****Solid Head Fit**

↳ Measurements or Notes

Pictures

Repair

↳ Weld and machine fit

**Protecting Ring Condition****Protecting Ring Condition**

OK

Pictures**Grease Ring****Grease Ring**

OK

Pillow Block Cover Condition**Pillow Block Cover Condition**

OK

Pictures**Pillow Block Spacer****Pillow Block Spacer**

OK

Pillow Block V-Ring**Pillow Block V-Ring**

OK

Main Bearing Area

Main Bearing Area

OK


Pictures**Inboard Pulley Sheave Fit****Inboard Pulley Sheave Fit**

OK

Outboard Pulley Sheave Fit**Outboard Pulley Sheave Fit**

OK

Pictures**Key Way Condition**

Key Way Condition	OK
Key Stock Condition	
Key Stock Condition	OK
Lock Washer Condition	
Lock Washer Condition	OK
Lock Nut Condition	
Lock Nut Condition	OK
Brass Bushing	
Brass Bushing Pictures	<div>Replace</div> <div></div>
Inboard Seal Area	
Inboard Seal Area	Repair

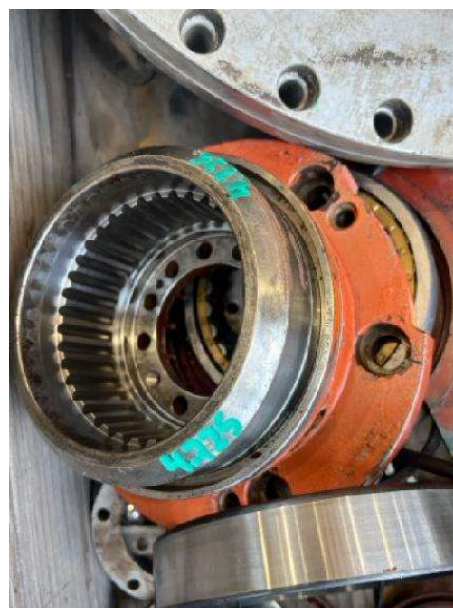
Pictures**Outboard Seal Area****Outboard Seal Area
Pictures****Repair****Conveyor Bearing Area****Conveyor Bearing Area****Repair**

Pictures**Thrust Bearing Area****Thrust Bearing Area**

OK

GEAR FLANGE**Gear Flange Inboard Fit****Gear Flange Inboard Fit**

OK

Pictures**Gear Flange Outboard Fit**

Gear Flange Outboard Fit

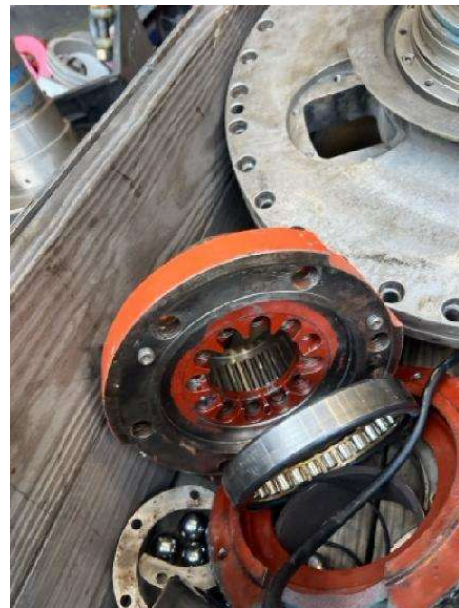
OK

Gearbox Depth**Gearbox Depth**

OK

Fit to Gearbox**Press To Bearing
Pictures**

OK


**Gear Flange Splines****Labyrinth**

OK

PULLEY SHEAVE**Pulley Grooves Condition****Pulley Condition**

OK

Pictures			
Pulley Sleeve Condition			
Pulley Sleeve Condition	OK		
Pictures			
Pulley Sleeve Inboard Fit			
Pulley Sleeve Inboard Fit	OK		
Pulley Sleeve Outboard Fit			
Grooves Condition	OK		
Pulley Sleeve Labyrinth Condition			
Pulley Sleeve Labyrinth Condition	OK		

Pictures		
Gear Flange Inboard Fit		
Pulley Sleeve Labyrinth Condition	OK	
Gear Flange Outboard Fit		
Gear Flange Outboard Fit	OK	
Keyway Condition		
Gear Flange Outboard Fit	OK	
SOLID END PILLOW BLOCK		
Solid End Pillow Block Condition		
Solid End Pillow Block Condition	OK	
↳ Measurements or Notes	↳ 7.874	

Pictures



Labyrinth Condition

Labyrinth Condition
Pictures

OK



Bearing Area


Bearing Area

OK

Bearing Cover Condition

Bearing Cover Condition

OK

Bearing Cover Press	
Bearing Cover Press	OK
Dowel Pins Condition	
Bearing Cover Press	OK
LIQUID END PILLOW BLOCK	
Liquid End Pillow Block Condition	
<div><div><div>Liquid End Pillow Block Condition</div><div>↳ Measurements or Notes</div><div>Pictures</div></div><div><div>OK</div><div>↳ 7.086</div></div><div></div></div>	
Labyrinth Condition	
Labyrinth Condition	OK

Pictures		
Bearing Area		
Bearing Area	OK	
Bearing Cover Condition		
Bearing Cover Condition	OK	
Bearing Cover Press		
Bearing Cover Press	OK	
Dowel Pins Condition		
Bearing Cover Press	OK	
PROTECTING TUBE		
Dowel Pin (5mm)		
Dowel Pin	Replace	
Pictures		

Brass Ring Area**Brass Ring Area**

Replace

Concentric**Concentric**

Replace

PARTS TO QUALIFY**Parts to Qualify**

PARTS TO QUALIFY

1 OF 4

Parts to Qualify**Part**

Bowl

Notes

Set in the lathe put all areas running zero
skim cut both faces max .003 per side make a
skim cut witness to confirm

PARTS TO QUALIFY

2 OF 4

Parts to Qualify**Part**

Liquid head

Notes

Set in the lathe put all areas running zero
skim cut both faces max .003 per side make a
skim cut witness to confirm

PARTS TO QUALIFY

3 OF 4

Parts to Qualify**Part**

Solid head

Notes		Set in the lathe put all areas running zero skim cut both faces max .003 per side make a skim cut witness to confirm
PARTS TO QUALIFY		4 OF 4
Parts to Qualify		
Part		Gear flange
Notes		Set in the lathe put all areas running zero skim cut both faces max .003 per side make a skim cut witness to confirm
HIT LIST		
Hit List		
HIT LIST		1 OF 18
Hit List		
Department		Machine
Description of Work		Repair seal area
		Repair bearing area
		Repair thrust bearing area
Part		Weld and machine fit
		Solid head
HIT LIST		2 OF 18
Hit List		

Department	Machine
Description of Work	Weld and machine fit
Part	Liquid head
HIT LIST	3 OF 18
Hit List	
Department	Assembly
Description of Work	Change solid end parts and check stack up
Part	Conveyor
HIT LIST	4 OF 18
Hit List	
Department	Assembly
Description of Work	Install trunnions
Part	Conveyor
HIT LIST	5 OF 18
Hit List	
Department	Assembly
Description of Work	Straighten the conveyor
Part	Conveyor
HIT LIST	6 OF 18
Hit List	

Department	Assembly
Description of Work	Balance conveyor
Part	Conveyor
HIT LIST	7 OF 18
Hit List	
Department	Assembly
Description of Work	Assembly the conveyor
Part	Conveyor
HIT LIST	8 OF 18
Hit List	
Department	Assembly
Description of Work	Build solid head
Part	Solid head
HIT LIST	9 OF 18
Hit List	
Department	Assembly
Description of Work	Build liquid head
Part	Liquid head
HIT LIST	10 OF 18
Hit List	

Department	Assembly
Description of Work	Check stack up
Part	Assembly
HIT LIST	11 OF 18
Hit List	
Department	Assembly
Description of Work	Install heads
Part	Assembly
HIT LIST	12 OF 18
Hit List	
Department	Assembly
Description of Work	Install gear box and check run out
Part	Assembly
HIT LIST	13 OF 18
Hit List	
Department	Assembly
Description of Work	Balance RA
Part	Assembly
HIT LIST	14 OF 18
Hit List	

Department	Assembly
Description of Work	Replace case gasket
Part	Skid
HIT LIST	15 OF 18
Hit List	
Department	Assembly
Description of Work	Nordbak to case top
Part	Skid
HIT LIST	16 OF 18
Hit List	
Department	Assembly
Description of Work	Perro the skid and make it ready to send it
Part	Skid
HIT LIST	17 OF 18
Hit List	
Department	Assembly
Description of Work	Indicate main bearings and alignment of the main motor
HIT LIST	18 OF 18
Hit List	
Department	Assembly

Description of Work	Test run
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OUTSIDE SERVICE

Outside Service

OUTSIDE SERVICE1 OF 1

Outside Service

Part	Skid
Description of Outside Service Needed	Paint

MASTER GEARBOX INSPECTION REPORT

Job Information

Job Number

Inspected By


Date Inspected

Take a picture of entire unit before disassembly.

J 3844. 6.0 KNM

MIGUEL

May 30, 2025



Inspection Summary

General Comments on Condition of Unit

internal components in good
condition...bearings and seals replace only

FIRST STAGE**Pinion Bearing Area 1****Pinion Bearing Area 1**

↳ Measurements or Notes

OK

↳ 0.787

Pictures**Pinion Bearing Area 2****Pinion Bearing Area 2**

↳ Measurements or Notes

OK

↳ 0590

Pictures



Pinion Seal Area

Pinion Seal Area

↳ Measurements or Notes

OK

↳ 0.782

Pictures



Ring Gear

Ring Gear

↳ Measurements or Notes

OK

↳ 11.807

Pictures



Planet Gears

Planet Gears

↳ Measurements or Notes

OK

↳ 4643

Pictures



Journals

Journals

↳ Measurements or Notes

OK

↳ 4635

Pictures



Thrust Washers

Thrust Washers	Not Applicable
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Journal Bearings

Journal Bearings	Not Applicable
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Cover

Cover	OK
↳ Measurements or Notes	↳ 11805

Pictures



Notes on First Stage

Notes On First Stage

6.0KNM

SECOND STAGE

Pinion

Pinion

↳ Measurements or Notes

Pictures

OK

↳ 1180



Ring Gear

Ring Gear[↳ Measurements or Notes](#)[Pictures](#)

OK


[↳ 11807](#)**Planet Gears****Planet Gears**[↳ Measurements or Notes](#)[Pictures](#)

OK

[↳ 4213](#)**Journals****Journals**[↳ Measurements or Notes](#)

OK

[↳ 4203](#)

<div><div>Pictures</div><div></div></div>	
Thrust Washers	
Thrust Washers	Not Applicable
Journal Bearings	
Journal Bearings	Not Applicable
Cover	
Thrust Washers	Not Applicable
Cage	
Cage	OK
↳ Measurements or Notes	↳ 10.863

Pictures**Cage Cover****Cage Cover**[↳ Measurements or Notes](#)

OK

[↳ 10.863](#)**Pictures**