

INVOICE NUMBER	INVOICE DATE	CUSTOMER NO.	CUSTOMER PURCHASE ORDER NUMBER	STORE	DIV	SALESMAN	TERMS	PAGE
SS400024007	01-31-17	151060	28408	40	G	157	2	1
PSW/MO NO.	DOC DATE	PC	LC	MC	SHIP VIA			INVOICE SEQ NO.
4023197	01-04-17	1C	1C	1C				9932829
MAKE	MODEL	SERIAL NUMBER		EQUIPMENT NUMBER		METER READING		MACH ID NO.
AA	963C	0BBD00915		1818		16244.0		
QUANTITY	ITEM	FNR		DESCRIPTION		UNIT PRICE		EXTENSION

INSPECT MACHINE

PERFORMED INSPECTION ON MACHINE.

SHOP LABOR

TOTAL LABOR SEG. 00

1.00-

INSPECTION

TOTAL MISC CHGS SEG. 00

SEGMENT 00 TOTAL

WASH

NLV MACHINE.

COMPLAINT: MACHINE NEEDS WASHED FOR REPAIRS

CAUSE: WORKING CONDITIONS

CORRECTION: WASHED MACHINE BEFORE PERFORMING  
REPAIRS AND RINSED AFTERWARDS.

F/R LBR

SEGMENT 01 TOTAL

REMOVE & INSTALL BUCKET

## INVOICE

PAY THIS AMOUNT	⇒	CONT'D
AMOUNT CREDIT	⇒	

INVOICE NUMBER	INVOICE DATE	CUSTOMER NO.	CUSTOMER PURCHASE ORDER NUMBER	STORE	DIV	SALESMAN	TERMS	PAGE
SS400024007	01-31-17	151060	28408	40	G	157	2	2
PSW/MONO NO	DOC DATE	PC	LC	MC	SHIP VIA			INVOICE SEQ NO
4023197	01-04-17	1C	1C	1C				9932829
MAKE	MODEL	SERIAL NUMBER		EQUIPMENT NUMBER		METER READING		MACH ID NO
AA	963C	0BBD00915		1818		16244.0		
QUANTITY	ITEM	P/N/R		DESCRIPTION		UNIT PRICE		EXTENSION

COMPLAINT: NEEDS LINE BORE

CAUSE: BORES OUT OF SPECS

CORRECTION: REMOVED BUCKET, INSTALLED BUCKET AFTER  
LINE BORED. INSTALLED WITH NEW PINS.

2	2D-4867	FITTING	S
4	3B-8489	ADAPTER STR	S
4	7K-9208	SEAL	S
4	8T-5439	WASHER	S
3	8T-6430	BOLT	S
4	9K-9731	SPACER	S
2	215-9365	BEARING	S
2	215-9366	PIN AS	S
8	216-5217	WASHER	S

TOTAL PARTS

SEG. 04

F/R LBR

SEGMENT 04 TOTAL

-----  
REMOVE & INSTALL LOADER LINKAGE

COMPLAINT: REMOVE FOR INSPECTION

CAUSE: INSPECT

CORRECTION: REMOVED LINKAGE. REMOVED AND  
INSTALLED BEARINGS. INSTALLED LOADER LINKAGE

2	3G-0222	BEARING	S
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INVOICE

PAY THIS AMOUNT	⇒	CONT'D
AMOUNT CREDIT	⇒	

INVOICE NUMBER	INVOICE DATE	CUSTOMER NO.	CUSTOMER PURCHASE ORDER NUMBER	STORE	DIV	SALESMAN	TERMS	PAGE
SS400024007	01-31-17	151060	28408	40	G	157	2	3
PSW/WORK NO.	DOC DATE	PC	LC	MC	SHIP VIA			INVOICE SEQ. NO.
4023197	01-04-17	1C	1C	1C				9932829
MAKE	MODEL	SERIAL NUMBER		EQUIPMENT NUMBER		METER READING		MACH. ID NO.
AA	963C	0BBD00915		1818		16244.0		
QUANTITY	ITEM	P/N/R		DESCRIPTION		UNIT PRICE		EXTENSION

4	7K-9212		SEAL	S
2	7K-9218		SEAL-LIP	S
1	7P-6865		PIN A	S
1	7P-6893		BEARING	S
3	232-4473		PIN AS	S

TOTAL PARTS                      SEG. 05

F/R LBR

1.00

EXPEDITE CHRG

TOTAL MISC CHGS                      SEG. 05

SEGMENT 05 TOTAL

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LINE BORE LOADER FRAME

COMPLAINT: PINS LOOSE  
 CAUSE: BEARING BORES OUT OF SPECS  
 CORRECTION: REMOVED BEARINGS. WELDED UP AND  
 MACHINED TWO HOLES TO CORRECT SIZE. INSTALLED  
 BEARINGS AND SEALS.

F/R LBR

SEGMENT 07 TOTAL

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# INVOICE

PAY THIS AMOUNT	⇒	CONT'D
AMOUNT CREDIT	⇒	

INVOICE NUMBER	INVOICE DATE	CUSTOMER NO.	CUSTOMER PURCHASE ORDER NUMBER	STORE	DIV	SALESMAN	TERMS	PAGE
SS400024007	01-31-17	151060	28408	40	G	157	2	4
PSW/NO NO	DOC. DATE	PC	LC	MC	SHIP VIA		INVOICE SEQ. NO.	
4023197	01-04-17	1C	1C	1C			9932829	
MAKE	MODEL	SERIAL NUMBER		EQUIPMENT NUMBER		METER READING		MACH. ID NO.
AA	963C	0BBD00915		1818		16244.0		
QUANTITY	ITEM	P/N/R		DESCRIPTION		UNIT PRICE		EXTENSION

LINE BORE BUCKET

LABOR TO LINE BORE 6 HOLES ON BUCKET

COMPLAINT: BUCKET LOOSE

CAUSE: PIN BORES ARE OUT OF SPECIFICATION

CORRECTION: WELDED UP FOUR HOLES. MACHINED TO  
CORRECT SIZE. WELDED LOWER HOLES TO SPEC. STARTED  
SETTING UP ON UPPER HOLES. WELDED UP AND MACHINED  
TWO UPPER HOLES TO CORRECT SIZE

F/R LBR

SEGMENT 08 TOTAL

-----  
REMOVE & INSTALL 2 FINAL DRIVE & BRAKE  
EACH

BOTH FINALS WERE LOW ON OIL IN PRE-INSPECTION  
FINALS WERE FILLED AND BY THE NEXT MORNING OIL HAD  
LEAKED BACK OUT ONTO SHOP FLOOR. FINALS LEAKING AT  
DUO-CONE SEAL

COMPLAINT: TRACKS NEED REMOVED.

CAUSE: TO GAIN ACCESS TO FINAL DRIVES.

CORRECTION: PUT MACHINE IN AIR AND LOOSENED TRACKS  
THEN SPLIT TRACKS AND ROLLED THEM OUT OF THE WAY.  
HELI-COILED ONE BOLT HOLE FOR THE MASTER LINK ON  
THE LEFT SIDE THEN WRAPPED THE LEFT TRACK. TORQUED

INVOICE

PAY THIS AMOUNT	⇒	CONT'D
AMOUNT CREDIT	⇒	

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Quote Date . . . . :2012-02-17

Valid Until . . . . :2012-03-18

<b>Make</b>	<b>Model</b>	<b>Serial Number</b>	<b>Unit Number</b>
Cat	963C	0BBD00915	1818

**Explanation of Type:**

"Est." amounts may be more or less than your final invoice.

"Time & Material" items will be billed at the actual price of the time, parts and miscellaneous charges.

"Firm" Parts Labor Misc items are firm priced and will be invoiced at that price.

**WORK TO BE PERFORMED**

Segment	Description	Type	Amount
01	RECONDITION ENGINE	Firm Labor	
		Firm Misc.	
		Est.Parts	

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Total of Firm Price Items	8,181.80
Total of Estimated Items	12,200.00
<b>Total</b>	<b>20,381.80</b>



## FOLEY RECONDITIONED COMPONENT LIMITED WARRANTY

Component Description: Engine 12, 318 hrs / 4-25/12 Foley Work Order #: 4008208

Installed in Equipment: Manufacturer: \_\_\_\_\_ Year: \_\_\_\_\_ Model: \_\_\_\_\_ S/N: \_\_\_\_\_ SMU: \_\_\_\_\_

Foley Equipment Company ("Foley") warrants that the Reconditioned Component (i.e. engines, transmissions, final drives, differentials) described above to be free of defects in material and workmanship during the Warranty Period described below. This warranty is limited and subject to all of the terms and conditions listed below and on the reverse side of this warranty.

### Warranty Period and Proration of Cost

- Components installed by Foley: Warranty Period is lesser of three (3) years or 5,000 hours of operation from installation. No cost proration.
- Components not installed by Foley: Warranty Period is lesser of three (3) years from date of sale or 3,600 hours of operation from installation. Proration of Cost to Customer is as follows:
  - Repairs subject to this Limited Warranty made in the first six (6) months of the Warranty Period will be at no cost to the Customer.
  - Thereafter, Customer's share of the cost of repairs subject to this Limited Warranty shall be the result of multiplying the total cost of such repairs by the percentage of the Warranty Period expired. The percentage of the Warranty Period expired will be the greater of the Warranty Period expired using either hours of operation or days from date of installation, or date of sale, whichever is earlier.

### Foley responsibilities

If the Reconditioned Component described above is inspected and determined by Foley to have been defective in material and workmanship, Foley will, during normal working hours and through a place of business of Foley or other source approved by Foley:

- Provide reasonable or customary labor needed to correct the defect
- Provide (at Foley's choice) new, rebuilt or Foley-approved repaired parts or assembled components needed to correct the defect.
- Note: Items replaced under this warranty become the property of Foley.
- Replace lubricating oil, filters, coolant and other service items made unusable by the defect.

### Customer responsibilities:

- Providing proof of purchase and the date of installation
- Transportation and/or travel costs,
- Customer cost as calculated above for prorated warranty cost
- If Customer requests work to be done on an overtime basis, difference between Foley's overtime rate and regular time charges.
- Costs to investigate complaints, unless the problem is caused by a defect in Foley material or workmanship.

- Giving timely notice of a warrantable failure and promptly making the product available for repair.
- Improper use, operation beyond capacity.
- Performance of the required maintenance (including use of proper fuel, oil, lubricants, and coolant and SOS oil sampling) and replacement of items due to normal wear and tear.
- Allowing Foley access to all electronically stored data.

### Foley is not responsible for:

- Operator abuse or neglect, including but not limited to the failure to perform the recommended preventative maintenance as specified in the Operation & Maintenance Manuals.
- Non-covered components.
- Substitution of unapproved parts, third party alteration or repair materially and adversely affecting the product.
- Chemical corrosion and physical or mechanical erosion.
- Unauthorized fuel setting changes.
- Acts of God, war, vandalism, riot, theft, explosion, collision, fire and/or any other act of nature, person or vermin.
- Operating equipment with improper levels of lubricants or coolant.
- Physical damage.
- Normal preventative maintenance services performed before failure, including but not limited to engine tune-ups, valve lash adjustments, component lubrication, filter changes, v-belt replacements, hose replacements, fuel nozzle or injector replacements, thermostat replacements, chain replacements and normal hydraulic cylinder reseals.
- Adjustments to fuel settings or electronic unit injectors associated with engine performance complaints.
- ~~peripheral parts (radiator, alternator, starter, compressor, and other peripheral parts).~~

### Warranty Terms and Conditions

"Reconditioned" means that the Component has been totally disassembled, inspected and overhauled by Foley. All components must be removed and installed

by Foley. Parts reusability or replacement during reconditioning will be at the sole discretion of Foley.

Customer will use, operate, maintain and store the Equipment in a reasonable and proper manner, in compliance with (i) all operating manuals, maintenance manuals, and instructions provided, and (ii) all applicable laws and regulations. **Scheduled oil sampling (SOS) is a required procedure in properly maintaining the Equipment.** Any malfunction of the service meter shall be reported to Foley, in writing, within thirty (30) days of said malfunction. If said malfunction is not reported within said time, this Warranty shall be deemed null and void at the option of Foley. The Equipment is to be used by Customer exclusively and not subleased, loaned, or otherwise used by persons or entities other than Customer. Customer shall not alter the Equipment or affix any accessory thereto if such alteration or addition would impair the originally intended function or use or reduce the value of the Equipment. Foley shall be entitled to terminate this Warranty if the foregoing provisions are violated.

Foley is a vendor/independent contractor. Customer may not assign or otherwise transfer this Warranty, or any rights, powers, options, obligations, liabilities, or interests hereunder. Any attempt to do so shall be void and of no effect. Foley may assign this Warranty; but no such assignment shall relieve Foley from any liability hereunder. This Warranty may not be modified orally. The parties to this Warranty shall execute and deliver all documents, provide all information, and take or refrain from taking action as may be necessary or appropriate to achieve the purposes of this Warranty.

This Warranty shall be binding upon and inure to the benefit of the parties hereto and their heirs, executors, administrators, successors, legal representatives and permitted assignees.

This Warranty constitutes the entire Warranty among the parties hereto pertaining to the subject matter hereof and supersedes all prior agreements and understandings pertaining thereto. No failure by any party to insist upon the strict performance of any covenant, duty, agreement or condition of this Warranty or to exercise any right or remedy consequent upon a breach thereof shall constitute waiver of any such breach or any other covenant, duty, agreement or condition. If any provision of this Warranty is or becomes invalid, illegal, or unenforceable in any respect, and if the rights and obligations of the parties to this Warranty will not be materially and adversely affected thereby, (a) such provision will be fully severable; (b) this Warranty will be construed and enforced as if such illegal, invalid, or unenforceable provision had never comprised a part hereof; (c) the remaining provisions of this Warranty will remain in full force and effect and not be affected by the illegal, invalid, or unenforceable provision or by its severance here from; and (d) in lieu of such illegal, invalid, or unenforceable provision there shall be added automatically as a part of this Warranty a legal, valid, and enforceable provision as similar in terms to such illegal, invalid, or unenforceable provision as is possible. This Warranty shall be construed in accordance with and governed by the internal laws of the State of Kansas, without regard to the principles of conflicts of law. Any and all actions in law, equity, or otherwise arising under this Warranty, or in any manner from the transactions contemplated herein, shall be brought either in the U.S. District Court for the District of KS, sitting in Wichita, KS, or the 18th Judicial District, District Court, Sedgwick County, KS, and in no other court or jurisdiction. Each party hereto hereby consents to the jurisdiction of said courts. This contract shall be deemed to have been made in Wichita, KS. No provision of this Warranty

shall be interpreted for or against any party hereto on the basis that such party was the draftsman of such provision; and no presumption or burden of proof shall arise disfavoring or favoring any party by virtue of the authorship of any of the provisions of this Warranty.

FOLEY DOES NOT AUTHORIZE ANY PERSON TO CREATE FOR IT ANY OBLIGATION OR LIABILITY IN CONNECTION WITH THE EQUIPMENT, PARTS, OR SERVICES, OTHER THAN THOSE EXPRESSLY SET FORTH HEREIN. FOLEY FURTHERMORE DISCLAIMS, AND CUSTOMER EXPRESSLY DISCLAIMS, ANY RELIANCE ON STATEMENTS MADE BY FOLEY OR ITS AGENTS. EXCEPT FOR ANY EXPRESS WARRANTIES EXTENDED IN WRITING BY CATERPILLAR, INC., THE EQUIPMENT, ALL PARTS, AND ALL SERVICES PROVIDED HEREUNDER ARE SOLD, LEASED, OR PROVIDED "AS IS" AND WITH ALL FAULTS. FOLEY MAKES NO WARRANTIES, EXPRESS OR IMPLIED, CONCERNING THE EQUIPMENT, PARTS, OR SERVICES, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR WARRANTY THAT THE EQUIPMENT IS IN COMPLIANCE WITH ANY APPLICABLE GOVERNMENTAL REGULATIONS, SPECIFICATIONS, OR REQUIREMENTS. PERFORMANCE OF THE REPAIRS OR ADJUSTMENTS IS THE EXCLUSIVE REMEDY UNDER ANY WARRANTY EXTENDED BY FOLEY. CUSTOMER HEREBY WAIVES, AND FOLEY SHALL NOT BE LIABLE FOR, ANY CLAIM (INCLUDING ANY CLAIM BASED ON STRICT OR ABSOLUTE LIABILITY IN TORT) IT MIGHT HAVE AGAINST FOLEY FOR ANY LOSS, DAMAGE (INCLUDING INCIDENTAL OR CONSEQUENTIAL DAMAGE), OR EXPENSE CAUSED BY THE EQUIPMENT, PARTS, OR SERVICES. WITHOUT LIMITING THE FOREGOING, LOSS OF EQUIPMENT USE, INCONVENIENCE, STORAGE, LOSS OF TIME OR PAYMENT, DELAY PENALTIES, AND SUBSTITUTE RENTAL SHALL REMAIN THE SOLE RESPONSIBILITY OF CUSTOMER, AND FOLEY SHALL HAVE NO LIABILITY THEREFOR.

IN WITNESS WHEREOF, the parties have executed this Warranty on \_\_\_\_\_.

Customer: By: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
  
Foley: By: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_

Revised 1/1/2011



INVOICE NO PSO049032-1	INVOICE DATE 2016-04-29
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CUSTOMER NO BP0007763	PAGE NO 1
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CUSTOMER PO 963C BBD00915
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**PARTS INVOICE**

POS.	SHIP	B/O	PART NUMBER / Lot ID	DESCRIPTION	WRH	PRICE	TOTAL
1	2		0 CR4267/37X Mfg Code USE	TRACK CHAIN			
2	72		0 CR3324/22 Mfg Code USE	TRACK SHOE			
3	2		0 CR3325/22 Mfg Code USE	MASTER SHOE			
4	288		0 1S1859 Mfg Code USE	TRACK BOLT			
5	288		0 1S1860 Mfg Code USE	TRACK NUT			
6	1		0 LABOR Mfg Code USE	LABOR TO ASSEMBLE TRACK			
7	2		0 CR4800 Mfg Code USE	TOP ROLLER			
8	6		0 CR6088 Mfg Code USE	SF ROLLER			
9	6		0 CR6089 Mfg Code USE	DF ROLLER			
10	2		0 VCR4007WBV Mfg Code NWP	IDLER W/	10700		



INVOICE NO PSO049032-1	INVOICE DATE 2016-04-29
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CUSTOMER NO BP0007763	PAGE NO 2
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CUSTOMER PO <b>963C BBD00915</b>
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POS. SHIP	B/O	PART NUMBER / Lot ID	DESCRIPTION	WRH	PRICE	TOTAL
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**SALES TAX DETAILS**

AXYM	- MISSOURI	:	557.15
AYSD	- JACKSON CO-MISSOURI	:	148.35
AYSO	- KANSAS CITY-JACKSON CO-MISSOUR	:	395.61

PARTS	13,187.00
MISC CHARGES	0.00
SUBTOTAL	13,187.00
SALES TAX	1,101.11
<b>INVOICE TOTAL (USD)</b>	<b>14,288.11</b>

INVOICE NUMBER	INVOICE DATE	CUSTOMER NO.		CUSTOMER PURCHASE ORDER NUMBER		STORE	DIV	SALESMAN	TERMS	PAGE
PS400109993	04-28-16	151060		22887		40	G		2	1
PSO/WO NO.	DOC. DATE	PC	LC	MC	SHIP VIA				INVOICE SEQ. NO.	
40C335137	04-27-16	1C		1C					9539802	
MAKE	MODEL	SERIAL NUMBER			EQUIPMENT NUMBER		METER READING		MACH. ID NO.	
AA	CPN	CPN							JOB 800	
QUANTITY	ITEM	*N/R	DESCRIPTION				UNIT PRICE		EXTENSION	

10 197-9673 SEGMENT

UC-MULTI PLATFORM

40 3S-8182 BOLT

UC-GENERAL DUTY

40 7H-3607 NUT

680.70 T

MISSOURI STATE TAX

28.76 T

JACKSON CO MO

8.51 T

KANSAS CITY MO

19.57 T

SD	PAY THIS AMOUNT ➤	737.54
	AMOUNT CREDIT ➤	

Equipment: 001013681818  
 Make-Model: CATERPILLAR 963C T LDR  
 Type: LOADER  
 Serial Number:

Unit Number 1818E  
 Customer No. 0001001368  
 ENGINE (SOOT)  
 SAE Grade:  
 Fuel: Di  
 Sales Rep:

Sample Information						Physical Data				Wear Metal Concentrations in Parts Per Million (ppm) by Weight									
						Viscosity	Glycol	Fuel	Water	Lead	Iron	Silica	Chromium	Tin	Aluminum	Copper	Sodium	Potassium	
Test Date	Sample Date	Sample Num	Total Hours / Miles	Hours / Miles This Sample	C / S														
1/3/2017	12/13/2016	010317076	16233	0	Chng	12.2	NEG	NEG	NEG	0A	7A	3A	1A	0A	2A	0A	6	1	
9/26/2016	9/20/2016	092616081	16002	0	Chng	12.5	NEG	NEG	NEG	0A	10A	4A	1A	0A	3A	1A	15	0	
4/26/2016	4/12/2016	042616102	15767	0	Chng	12.4	NEG	NEG	NEG	1A	10A	4A	1A	0A	3A	2A	22	1	
3/18/2016	3/7/2016	031816038	15565	0	Chng	13.0	NEG	NEG	NEG	4A	11A	4A	1A	0A	2A	1A	1	0	
10/16/2015	10/6/2015	101615071	15185	0	Chng	13.4	NEG	NEG	NEG	1A	16A	4A	2A	0A	4A	2A	20	1	

Sample Information			Chemical Data			Additive Metals in ppm				Particle Counts Per Particle Size								ISO
Test Date	Sample Date	Sample Num	TBN	Soot	Ox	Ca	P	Zn	Mq	4Um	6Um	10Um	14Um	21Um	25Um	50Um	70Um	Code
1/3/2017	12/13/2016	010317076		0.00														
9/26/2016	9/20/2016	092616081		0.00														
4/26/2016	4/12/2016	042616102		0.00														
3/18/2016	3/7/2016	031816038		0.00														
10/16/2015	10/6/2015	101615071		0.90														

Sample Num	RECOMMENDATIONS	Rating
010317076	ALL TESTS APPEAR NORMAL FOR THIS SAMPLE.	A No action Required
092616081	ALL TESTS APPEAR NORMAL FOR THIS SAMPLE.	C Review complete analysis, monitor engine or component parameters
042616102	ALL TESTS APPEAR NORMAL FOR THIS SAMPLE.	X Review complete analysis, examine engine or component parameters, Resample immediately
031816038	ALL TESTS APPEAR NORMAL FOR THIS SAMPLE.	
101615071	ALL TESTS APPEAR NORMAL FOR THIS SAMPLE.	

A-NORMAL

C-WARNING

X-CRITICAL

NEG-NEGATIVE

TR-TRACE

POS-POSITIVE

Equipment: 001013681818  
 Make-Model: CATERPILLAR 963C T LDR  
 Type: LOADER  
 Serial Number:

Unit Number 1818HS  
 Customer No. 0001001368  
 HYD SYST (LPD)  
 SAE Grade:  
 Fuel:  
 Sales Rep:

Sample Information					
Test Date	Sample Date	Sample Num	Total Hours / Miles	Hours / Miles This Sample	C / S
8/28/2015	8/21/2015	082815185	14925	0	Chng
9/5/2014	9/2/2014	090514136	13720	0	Chng
12/19/2012	12/14/2012	121912146	12703	0	Chng
7/25/2011	7/14/2011	072211015	11752	1000	Chng
9/17/2010	9/16/2010	091710001	10769	2843	Chng

Physical Data			
Viscosity	Glycol	Fuel	Water
NEG	NEG	NEG	NEG
NEG	NEG	NEG	NEG
NEG	NEG	NEG	NEG
NEG	NEG	NEG	NEG
NEG	NEG	NEG	NEG

Wear Metal Concentrations in Parts Per Million (ppm) by Weight											
Lead	Iron	Silica	Chromium	Tin	Aluminum	Copper	Sodium	Potassium			
0A	3A	14A	1A	0A	3A	4A	16	0			
0A	3A	10A	1A	0A	0A	16A	8	1			
1A	5A	9A	2A	0A	1A	16A	0	1			
1A	8A	11A	1A	0A	2A	22A	5	0			
1A	6A	6A	1A	0A	2A	17A	5	1			

Sample Information			Chemical Data		
Test Date	Sample Date	Sample Num	TBN	Soot	Ox
8/28/2015	8/21/2015	082815185			
9/5/2014	9/2/2014	090514136			
12/19/2012	12/14/2012	121912146			
7/25/2011	7/14/2011	072211015			
9/17/2010	9/16/2010	091710001			

Additive Metals in ppm			
Ca	P	Zn	Mq

Particle Counts Per Particle Size								ISO
4Um	6Um	10Um	14Um	21Um	25Um	50Um	70Um	Code
2037	314	39	10	3	1	0	0	18/16/11
23430	2372	455	202	11	7	0	0	22/19/15

Sample Num	RECOMMENDATIONS
082815185	A.L TESTS APPEAR NORMAL FOR THIS SAMPLE.
090514136	A.L TESTS APPEAR NORMAL FOR THIS SAMPLE.
121912146	ALL TESTS APPEAR NORMAL FOR THIS SAMPLE.
072211015	ALL TESTS APPEAR NORMAL FOR THIS DRAIN INTERVAL. 3 1 0 ISO 18/13
091710001	38 8 1 ISO 19/16 ALL TESTS APPEAR NORMAL FOR THIS DRAIN INTERVAL.

Rating
A No action Required
C Review complete analysis, monitor engine or component parameters
X Review complete analysis, examine engine or component parameters, Resample immediately

A-NORMAL C-WARNING X-CRITICAL NEG-NEGATIVE TR-TRACE POS-POSITIVE



Equipment: 001013681818  
Make-Model: CATERPILLAR 963C T LDR  
Type: LOADER  
Serial Number:

Unit Number 1818LFD  
Customer No. 0001001368  
LEFT FINAL DRIVE (LPD)  
SAE Grade:  
Fuel:  
Sales Rep:

Sample Information					
Test Date	Sample Date	Sample Num	Total Hours / Miles	Hours / Miles This Sample	C / S
8/28/2015	8/21/2015	082815246	14925	0	Chng
9/5/2014	9/2/2014	090514205	13720	0	Chng
12/19/2012	12/14/2012	121912198	12703	0	Chng
7/25/2011	7/14/2011	072211018	11752	1000	Chng
9/17/2010	9/16/2010	091710003	10769	2843	Chng

Physical Data			
Viscosity	Glycol	Fuel	Water
NEG	NEG	NEG	NEG

Wear Metal Concentrations in Parts Per Million (ppm) by Weight										
Lead	Iron	Silica	Chromium	Tin	Aluminum	Copper	Sodium	Potassium		
1A	107A	29A	1A	0A	5A	0A	0	1		
0A	107A	37A	0A	0A	4A	0A	0	1		
0A	217A	64A	1A	1A	9A	1A	0	2		
1A	633C	204X	4A	0A	35A	1A	7	12		
2A	819X	380X	5A	0A	78X	3A	13	27		

Sample Information			Chemical Data		
Test Date	Sample Date	Sample Num	TBN	Soot	Ox
8/28/2015	8/21/2015	082815246			
9/5/2014	9/2/2014	090514205			
12/19/2012	12/14/2012	121912198			
7/25/2011	7/14/2011	072211018			
9/17/2010	9/16/2010	091710003			

Additive Metals in ppm			
Ca	P	Zn	Mq

Particle Counts Per Particle Size									ISO Code
4Um	6Um	10Um	14Um	21Um	25Um	50Um	70Um		
8099	1148	3021	490	12	3	1	2	22/21/1R	
22956	3660	21338	5241	138	115	0	0	24/23/20	

Sample Num	RECOMMENDATIONS	Rating
082815246	ALL TESTS APPEAR NORMAL FOR THIS SAMPLE.	A No action Required
090514205	ALL TESTS APPEAR NORMAL FOR THIS SAMPLE.	C Review complete analysis, monitor engine or component parameters
121912198	PARTICLE COUNT IS ELEVATED. CONTINUE TO SAMPLE TO MONITOR FLUID CLEANLINESS AND WEAR TREND.	X Review complete analysis, examine engine or component parameters, Resample immediately
072211018	NOTIFIED OF EXCESSIVE SILICA AND HIGH IRON. CHECK FOR SOURCE OF DIRT ENTRY. POSSIBLE GEAR/BEARING WEAR. FLUID IS TOO DARK OR HAS EXCEEDED DETECTION LIMITS FOR PARTICLE COUNT DETERMINATION. CONTINUE TO MONITOR FLUID CLEANLINESS.	
091710003	NOTIFIED OF EXCESSIVE IRON SILICA AND ALUMINUM. CHECK FOR SOURCE OF DIRT ENTRY. POSSIBLE BEARING/SHAFT WEAR. FLUID IS TOO DARK OR HAS EXCEEDED DETECTION LIMITS FOR PARTICLE COUNT DETERMINATION. CONTINUE TO SAMPLE.	

A-NORMAL

C-WARNING

X-CRITICAL

NEG-NEGATIVE

TR-TRACE

POS-POSITIVE

Equipment: 001013681818  
Make-Model: CATERPILLAR 963C T LDR  
Type: LOADER  
Serial Number:

Unit Number 1818RFD  
Customer No. 0001001368  
RIGHT FINAL DRIVE (LPD)  
SAE Grade:  
Fuel:  
Sales Rep:

Sample Information					
Test Date	Sample Date	Sample Num	Total Hours / Miles	Hours / Miles This Sample	C / S
8/28/2015	8/21/2015	082815245	14925	0	Chng
9/5/2014	9/2/2014	090514206	13720	0	Chng
12/19/2012	12/14/2012	121912197	12703	0	Chng
7/25/2011	7/14/2011	072211017	11752	1000	Chng
9/17/2010	9/16/2010	091710004	10769	2843	Chng

Physical Data			
Viscosity	Glycol	Fuel	Water
NEG	NEG	NEG	NEG

Wear Metal Concentrations in Parts Per Million (ppm) by Weight											
Lead	Iron	Silica	Chromium	Tin	Aluminum	Copper	Sodium	Potassium			
0A	154A	49A	1A	0A	10A	0A	2	3			
0A	81A	34A	0A	0A	5A	0A	0	2			
0A	109A	48A	1A	0A	10A	0A	0	3			
0A	237A	70A	1A	0A	14A	1A	6	4			
0A	525A	151X	3A	0A	31A	1A	9	10			

Sample Information			Chemical Data		
Test Date	Sample Date	Sample Num	TBN	Soot	Ox
8/28/2015	8/21/2015	082815245			
9/5/2014	9/2/2014	090514206			
12/19/2012	12/14/2012	121912197			
7/25/2011	7/14/2011	072211017			
9/17/2010	9/16/2010	091710004			

Additive Metals in ppm			
Ca	P	Zn	Mq

Particle Counts Per Particle Size								ISO Code
4Um	6Um	10Um	14Um	21Um	25Um	50Um	70Um	
11360	1369	1758	104	6	6	3	2	22/21/14
27779	3946	16488	2924	105	92	0	0	24/23/10

Sample Num	RECOMMENDATIONS
082815245	ALL TESTS APPEAR NORMAL FOR THIS SAMPLE.
090514206	ALL TESTS APPEAR NORMAL FOR THIS SAMPLE.
121912197	PARTICLE COUNT IS ELEVATED. CONTINUE TO SAMPLE TO MONITOR FLUID CLEANLINESS AND WEAR TREND.
072211017	WEAR ELEMENTS ARE NORMAL FOR THIS SAMPLE. PARTICLE COUNT HAS ELEVATED. CONTINUE TO SAMPLE TO MONITOR FLUID CLEANLINESS AND WEAR TREND. 8 3 1 ISO 23/19
091710004	NOTIFIED OF EXCESSIVE SILICA. CHECK FOR SOURCE OF DIRT ENTRY. FLUID IS TOO DARK OR HAS EXCEEDED DETECTION LIMITS FOR PARTICLE COUNT DETERMINATION. CONTINUE TO SAMPLE TO MONITOR FLUID CLEANLINESS AND DIRT ENTRY.

Rating
A No action Required
C Review complete analysis, monitor engine or component parameters
X Review complete analysis, examine engine or component parameters, Resample immediately

A-NORMAL

C-WARNING

X-CRITICAL

NEG-NEGATIVE

TR-TRACE

POS-POSITIVE