



UIN 043E6A0
Diesel Engine

Unit No. H-132

Unit: Caterpillar
Make 314E
Model 2JT00210
Serial No.
Site

Compartment: Diesel Engine
Name

Make
Model
Serial No.
Capacity:

Customer: KLB CONSTRUCTION(LAKESIDE IND)
P O Box 158
Lynnwood WA 98087
USA

DIAGNOSIS

All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range. Action: Resample next service interval to further monitor.

ANALYST: Sam Smith Portland

**Normal**

LEGEND

**Severe**

**Abnormal**

**Caution**

**Normal**

DATE SAMPLED	26-Apr-22	18-Feb-22	22-Oct-21	26-May-21	15-Mar-21	17-Dec-20
DATE RECEIVED	26-May-22	25-Feb-22	29-Oct-21	14-Jun-21	22-Mar-21	05-Jan-21
DATE REPORTED	26-May-22	01-Mar-22	02-Nov-21	21-Jun-21	29-Mar-21	11-Jan-21
LAB NO.						
SIF NO.	40111356357	40111326689	40111288706	40111233960	40111212531	40111187479
TIME ON UNIT	Hrs	Hrs				
TIME ON OIL	Hrs	39844100	36363969	38710904	38403067	37035864
OIL BRAND	Chevron	Chevron	Chevron	Chevron	Chevron	Chevron
OIL TYPE	Delo 400 LE	Delo 400 LE	Delo 400 LE	Delo 400 LE	Delo 400 LE	Delo 400 LE
OIL GRADE	SAE 15W40	SAE 15W40	SAE 15W40	SAE 15W40	SAE 15W40	SAE 15W40
OIL ADDED						
FILTER						
OIL CHANGED	Not Changed	Changed	Not Changed	Not Changed	Changed	Not Changed
W/O NUMBER						

Metals (ppm)						
Iron (Fe)	16	25	14	16	64	46
Chromium (Cr)	<1	<1	<1	<1	<1	<1
Lead (Pb)	<1	<1	<1	<1	<1	<1
Copper (Cu)	2	2	1	<1	2	1
Tin (Sn)	<1	<1	<1	<1	<1	<1
Aluminium (Al)	3	5	3	3	5	4
Nickel (Ni)	<1	<1	<1	<1	<1	<1
Silver (Ag)	<1	<1	<1	<1	<1	<1
Titanium (Ti)	<1	<1	<1	<1	<1	<1
Vanadium (V)	<1	<1	<1	<1	<1	<1

Contaminants (ppm)						
Silicon (Si)	5	4	3	4	5	5
Sodium (Na)	14	24	11	7	13	8
Potassium (K)	2	<1	3	<1	<1	2
Additives (ppm)						
Magnesium (Mg)	759	777	780	708	721	765
Calcium (Ca)	1592	1472	1477	1400	1265	1431
Barium (Ba)	<1	<1	<1	<1	<1	<1
Phosphorus (P)	889	726	753	748	668	737
Zinc (Zn)	1057	898	835	821	773	839
Molybdenum (Mo)	26	7	4	12	8	8
Boron (B)	159	53	87	98	59	82

Contaminants						
Water (%)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Coolant	No	No	No	No	No	No
Physical Tests						
Viscosity (cSt 100C)	14.1	13.7	14.1	13.9	13.6	14.2
Fuel (%)	<1	<1	<1	<1	1.80	<1
Soot (%) Infrared	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Physical / Chemical						
Base Number (mgKOH/g)	6.1	5.5	6.2	5.9	3.9	5.6
Oxidation (Abs/0.1mm)	13	14	12	12	14	13
E2412/D7414						
Nitration (Abs/0.1mm) E2412	8	9	8	8	9	8



LUBE CHECKLIST

250 HOUR PREVENTIVE MAINTENANCE CHECKLIST

EQUIPMENT # <i>H-132</i>	JOB # <i>108</i>	W.O. #
MODEL	SERIAL NO.	HOUR METER READING <i>10460 Hrs</i>
OTHER	LOCATION	
TYPE OF SERVICE	☒ 250 HR ☐ 750 HR ☐ 1250 HR ☐ 1750 HR	

FLUID / FILTERS CHANGED

ENGINE OIL & FILTER CHANGE? <i>N</i> FRONT / REAR	ENGINE OIL SAMPLE TAKEN? <i>Y</i> FRONT / REAR	FUEL FILTER CHANGED & SCREEN CLEANED? <i>N</i>
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FLUID LEVELS CHECKED

1 ☒ ENGINE F R	5 ☐ REAR DIFF	9 ☒ CIRCLED R	13 ☒ SWING DR.
2 ☐ TRANS F R	6 ☐ FINALS RF/LF	10 ☒ SPEED REDUCER	14 ☒ COOLANT <i>F°</i>
3 ☒ HYDRAULIC	7 ☒ FINALS RR/LR	11 ☐ SPINDELL R	
4 ☐ FRONT DIFF.	8 ☐ TANDEMS R L	12 ☐ STEERING	

OTHERS:

CHECKED

16 ☒ AIR FILTERS	23 ☐ PARKING BRAKE	30 ☐ TURN SIGNALS	37 ☒ EXPOSED WIRING
17 ☒ BATTERIES	24 ☐ INHIBITOR	31 ☒ FAN BELTS	38 ☒ GRAB IRONS
18 ☒ ALTERNATOR	25 ☐ AIR TANKS	32 ☒ GREASED FITTINGS	39 ☒ ROPS/FOPS
19 ☐ BRAKE RESERVE	26 ☐ UNIV. JOINTS	33 ☒ BREATHERS	40 ☒ SEAT BELT CONDITION
20 ☒ GAUGES	27 ☒ AIR FILTER INDICATOR	34 ☒ FIRE EX CHG.	41 ☒ SERVICE INTERVAL NOTIFICATION DECAL COMPLETED
21 ☒ HORN	28 ☒ PRE-CLEANER	35 ☒ BACK ALARM	
22 ☐ ROTATING BEACON	29 ☒ CAPS, COVERS	36 ☐ BRAKE LIGHTS	

OTHER:

WALK AROUND VISUAL INSPECTION

COMMENTS/RECOMMENDATIONS: *Sample this*

ABBREVIATIONS: Yes No RR = Requires Repair OK = No Repair Required NA = Not Applicable MF = Make up Fluid Added

SERVICEMAN SIGNATURE

DATE



"An Equal Opportunity/Affirmative Action Employer"



LUBE CHECKLIST

1000/2000 HOUR PREVENTIVE MAINTENANCE CHECKLIST

EQUIPMENT # <u>H-132</u>		JOB # <u>056</u>	W.O. #
MODEL	SERIAL NO.	HOUR METER READING <u>10206 HLL</u>	
OTHER		LOCATION	
TYPE OF SERVICE ☐ 1000 HR ☒ 2000 HR			

FLUID / FILTERS CHANGED

- | | | |
|---|---|---|
| 1 ☒ ENGINE OIL AND FILTER CHANGED? FRONT/REAR | 6 ☒ FUEL FILTER CHANGED & SCREEN CHANGED? | 11 ☐ DIFFERENTIAL OIL CHANGED? |
| 2 ☐ TRANSMISSION FILTER CHANGED? | 7 ☐ WINCH FILTER CHANGED? | 12 ☐ BRAKE SYSTEM OIL CHANGED? |
| 3 ☐ TRANSMISSION OIL CHANGED? | 8 ☒ FINAL DRIVE OIL CHANGED? RF/LF/RR/LR? | 13 ☒ SWING DRIVE OIL? |
| 4 ☒ HYDRAULIC FILTER CHANGED? | 9 ☒ COOLANT CHANGED | |
| 5 ☒ HYDRAULIC OIL CHANGED? | 10 ☐ STEERING SYSTEM OIL CHANGED? | |

OIL SAMPLES TAKEN AND FLUID LEVELS CHECKED

- | | | | |
|---|---|--|---|
| 14 ☒ ENGINE F R | 18 ☐ REAR DIF. | 22 ☒ CIRCLE DR. | 26 ☒ SWING DR. |
| 15 ☐ TRANS F R | 19 ☐ FINALS RF/LF | 23 ☒ SPEED REDUCER | 27 ☒ COOLANT _____ F° |
| 16 ☒ HYDRAULIC | 20 ☒ FINALS RR/LR | 24 ☐ SPINDLE L R | |
| 17 ☐ FRONT DIF. | 21 ☐ TANDEMS B L | 25 ☐ STEERING | |

OTHERS:

CHECKED

- | | | | |
|--|---|--|---|
| 29 ☒ AIR FILTERS | 39 ☐ UNIV. JOINTS | 49 ☐ BRAKE LIGHTS | 57 ☒ COND OF ROPS & MOUNT BOLTS |
| 30 ☒ BATTERIES | 40 ☒ AIR FILTER INDICATOR | 50 ☒ EXPOSED WIRING | 58 ☒ STARTING AND CHARGING SYSTEM |
| 31 ☒ ALTERNATOR | 41 ☒ PRE-CLEANER | 51 ☒ GRAB IRONS | 59 ☒ ENGINE NOISE, SMOKE, LEAKS |
| 32 ☐ BRAKE RESERVE | 42 ☒ CAPS, COVERS | 52 ☒ ROPS/FOPS | 60 ☒ SEAT BELT CONDITION |
| 33 ☒ GAUGES | 43 ☐ TURN SIGNALS | 53 ☒ SERVICE INTERVAL NOTIFICATION DECAL COMPLETED | 61 ☐ BRAKE ACCUMULATOR CHARGE (OHT) |
| 34 ☒ HORN | 44 ☒ FAN BELTS | 54 ☐ ENGINE VALVE ADJ. ☐ INTAKE ☐ EXHAUST | 62 ☒ MAIN FRAME BODY SUPP. (OHT) |
| 35 ☐ ROTATING BEACON | 45 ☒ GREASED FITTINGS | 55 ☐ VALVE COVER GASKET REPL | |
| 36 ☐ PARKING BRAKE | 46 ☒ BREATHERS | 56 ☐ TRANS OPER. NOISE, LEAKS | |
| 37 ☐ INHIBITOR | 47 ☒ FIRE EX CHG. | | |
| 38 ☐ AIR TANKS | 48 ☒ BACK ALARM | | |

OTHER:

WALK AROUND VISUAL INSPECTION

COMMENTS/RECOMMENDATIONS: 322-3155, 479-4131, 360-8960, 357-5142, 357-5143, 525-6205, 339-1048, 51-8670, 093-7521, 179-9806, 39mpd, 39ee

ABBREVIATIONS: Yes No RR = Requires Repair OK = No Repair Required NA = Not Applicable MF = Make up Fluid Added

SERVICEMAN SIGNATURE [Signature]

DATE 2-18-22



"An Equal Opportunity/Affirmative Action Employer"



LUBE CHECKLIST

250 HOUR PREVENTIVE MAINTENANCE CHECKLIST

EQUIPMENT # H132		JOB # 077	W.O. #
MODEL	SERIAL NO.	HOUR METER READING 9868	
OTHER		LOCATION L-200	
TYPE OF SERVICE ☒ 250 HR ☐ 750 HR ☐ 1250 HR ☐ 1750 HR			

FLUID / FILTERS CHANGED

ENGINE OIL & FILTER CHANGE? NO FRONT / REAR	ENGINE OIL SAMPLE TAKEN? YES FRONT / REAR	FUEL FILTER CHANGED & SCREEN CLEANED? NO
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FLUID LEVELS CHECKED

1 ☒ ENGINE F R	5 ☒ REAR DIFF	9 ☒ CIRCLE DR	13 ☒ SWING DR.
2 ☒ TRANS F R	6 ☒ FINALS RF/LF	10 ☒ SPEED REDUCER	14 ☒ COOLANT _____ F°
3 ☒ HYDRAULIC	7 ☒ FINALS RR/LR	11 ☒ SPINDEL L'R	
4 ☒ FRONT DIFF.	8 ☒ TANDEMS R L	12 ☒ STEERING	
OTHERS:			

CHECKED

16 ☒ AIR FILTERS	23 ☒ PARKING BRAKE	30 ☒ TURN SIGNALS	37 ☒ EXPOSED WIRING
17 ☒ BATTERIES	24 ☒ INHIBITOR	31 ☒ FAN BELTS	38 ☒ GRAB IRONS
18 ☒ ALTERNATOR	25 ☒ AIR TANKS	32 ☒ GREASED FITTINGS	39 ☒ ROPS/FOPS
19 ☒ BRAKE RESERVE	26 ☒ UNIV. JOINTS	33 ☒ BREATHERS	40 ☒ SEAT BELT CONDITION
20 ☒ GAUGES	27 ☒ AIR FILTER INDICATOR	34 ☒ FIRE EX CHG.	41 ☒ SERVICE INTERVAL NOTIFICATION DECAL COMPLETED
21 ☒ HORN	28 ☒ PRE-CLEANER	35 ☒ BACK ALARM	
22 ☒ ROTATING BEACON	29 ☒ CAPS, COVERS	36 ☒ BRAKE LIGHTS	
OTHER:			

WALK AROUND VISUAL INSPECTION

COMMENTS/RECOMMENDATIONS:

ABBREVIATIONS: Yes No RR = Requires Repair OK = No Repair Required NA = Not Applicable MF = Make up Fluid Added

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SERVICEMAN SIGNATURE

10-22-21

DATE



"An Equal Opportunity/Affirmative Action Employer"

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LUBE CHECKLIST

500 HOUR PREVENTIVE MAINTENANCE CHECKLIST

EQUIPMENT # 4132		JOB # 077	W.O. #
MODEL	SERIAL NO.	HOUR METER READING 9640	
OTHER		LOCATION L-200	
TYPE OF SERVICE	☒ 500 HR ☐ 1500 HR		

FLUID / FILTERS CHANGED

1 ☒ ENGINE OIL AND FILTER CHANGED? FRONT/REAR	3 ☒ HYDRAULIC FILTER CHANGED?	5 ☒ WINCH FILTER CHANGED?
2 ☒ TRANSMISSION FILTER CHANGED?	4 ☒ FUEL FILTER CHANGED AND SCREEN CLEANED?	6 ☒ CHANGED HYD STEERING FILTER (OHT)

OIL SAMPLES TAKEN AND FLUID LEVELS CHECKED

7 ☒ ENGINE F R	11 ☒ REAR DIFF.	15 ☒ CIRCLE DR.	19 ☒ SWING DR.
8 ☒ TRANS F R	12 ☒ FINALS RF/LF	16 ☒ SPEED REDUCER	20 ☒ COOLANT _____ F°
9 ☒ HYDRAULIC	13 ☒ FINALS RR/LR	17 ☒ SPINDLE L R	
10 ☒ FRONT DIFF.	14 ☒ TANDEM R L	18 ☒ STEERING	

OTHERS:

CHECKED

22 ☒ AIR FILTERS	36 ☒ INHIBITOR	38 ☒ GREASED FITTINGS	46 ☒ SEAT BELT CONDITION
23 ☒ BATTERIES	31 ☒ AIR TANKS	39 ☒ BREATHERS	47 ☒ SERVICE INTERVAL NOTIFICATION DECAL COMPLETED
24 ☒ ALTERNATOR	32 ☒ UNIV JOINTS	40 ☒ FIRE EX CHG.	
25 ☒ BRAKE RESERVE	33 ☒ AIR FILTER INDICATOR	41 ☒ BACK ALARM	
26 ☒ GAUGES	34 ☒ PRE-CLEANER	42 ☒ BRAKE LIGHTS	48 ☒ FRONT AXLE BEARING(MTG)
27 ☒ HORN	35 ☒ CAPS, COVERS	43 ☒ EXPOSED WIRING	49 ☒ RECOIL OIL COMPARTMENT (HIGH TRACK)
28 ☒ ROTATING BEACON	36 ☒ TURN SIGNALS	44 ☒ GRAB IRONS	50 ☒ HYD. STEERING FILTER (OHT)
29 ☒ PARKING BRAKE	37 ☒ FAN BELTS	45 ☒ ROPS/FOPS	

OTHER:

WALK AROUND VISUAL INSPECTION

COMMENTS/RECOMMENDATIONS:

ABBREVIATIONS: Yes No RR = Requires Repair OK = No Repair Required NA = Not Applicable MF = Make up Fluid Added

[Signature]

SERVICEMAN SIGNATURE

8-23-21

DATE



"An Equal Opportunity/Affirmative Action Employer"

[Signature]



LUBE CHECKLIST

250 HOUR PREVENTIVE MAINTENANCE CHECKLIST

EQUIPMENT # #132		JOB # 077	W.O. #
MODEL	SERIAL NO.	HOUR METER READING 9357	
OTHER		LOCATION L-200	
TYPE OF SERVICE	☒ 250 HR ☐ 750 HR ☐ 1250 HR ☐ 1750 HR		

FLUID / FILTERS CHANGED

ENGINE OIL & FILTER CHANGE? no FRONT / REAR	ENGINE OIL SAMPLE TAKEN? yes FRONT / REAR	FUEL FILTER CHANGED & SCREEN CLEANED? no
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FLUID LEVELS CHECKED

1 ☒ ENGINE F R	5 ☒ REAR DIFF	9 ☒ CIRCLE DR	13 ☒ SWING DR.
2 ☒ TRANS F R	6 ☒ FINALS RF/LF	10 ☒ SPEED REDUCER	14 ☒ COOLANT _____ F°
3 ☒ HYDRAULIC	7 ☒ FINALS RR/LR	11 ☒ SPINDEL L R	
4 ☒ FRONT DIFF.	8 ☒ TANDEMS R L	12 ☒ STEERING	
OTHERS:			

CHECKED

16 ☒ AIR FILTERS	23 ☒ PARKING BRAKE	30 ☒ TURN SIGNALS	37 ☒ EXPOSED WIRING
17 ☒ BATTERIES	24 ☒ INHIBITOR	31 ☒ FAN BELTS	38 ☒ GRAB IRONS
18 ☒ ALTERNATOR	25 ☒ AIR TANKS	32 ☒ GREASED FITTINGS	39 ☒ ROPS/FOPS
19 ☒ BRAKE RESERVE	26 ☒ UNIV. JOINTS	33 ☒ BREATHERS	40 ☒ SEAT BELT CONDITION
20 ☒ GAUGES	27 ☒ AIR FILTER INDICATOR	34 ☒ FIRE EX CHG.	41 ☒ SERVICE INTERVAL NOTIFICATION DECAL COMPLETED
21 ☒ HORN	28 ☒ PRE-CLEANER	35 ☒ BACK ALARM	
22 ☒ ROTATING BEACON	29 ☒ CAPS, COVERS	36 ☒ BRAKE LIGHTS	
OTHER:			

WALK AROUND VISUAL INSPECTION

COMMENTS/RECOMMENDATIONS:

ABBREVIATIONS: Yes No RR = Requires Repair OK = No Repair Required NA = Not Applicable MF = Make up Fluid Added

	5-26-21
SERVICEMAN SIGNATURE	DATE



LUBE CHECKLIST

1000/2000 HOUR PREVENTIVE MAINTENANCE CHECKLIST

EQUIPMENT # H132		JOB # 077	W.O. #
MODEL	SERIAL NO.	HOUR METER READING 9111	
OTHER		LOCATION L200	
TYPE OF SERVICE ☒ 1000 HR ☐ 2000 HR			

FLUID / FILTERS CHANGED

- | | | |
|---|---|---|
| 1 ☒ ENGINE OIL AND FILTER CHANGED? FRONT/REAR | 6 ☒ FUEL FILTER CHANGED & SCREEN CHANGED? | 11 ☐ DIFFERENTIAL OIL CHANGED? |
| 2 ☐ TRANSMISSION FILTER CHANGED? | 7 ☐ WINCH FILTER CHANGED? | 12 ☐ BRAKE SYSTEM OIL CHANGED? |
| 3 ☐ TRANSMISSION OIL CHANGED? | 8 ☒ FINAL DRIVE OIL CHANGED? RF/LF/RR/LR? | 13 ☒ SWING DRIVE OIL? |
| 4 ☒ HYDRAULIC FILTER CHANGED? | 9 ☒ COOLANT CHANGED | |
| 5 ☒ HYDRAULIC OIL CHANGED? | 10 ☐ STEERING SYSTEM OIL CHANGED? | |

OIL SAMPLES TAKEN AND FLUID LEVELS CHECKED

- | | | | |
|---|---|---|---|
| 14 ☒ ENGINE F R | 18 ☐ REAR DIFF. | 22 ☐ CIRCLE DR. | 26 ☒ SWING DR. |
| 15 ☐ TRANS F R | 19 ☒ FINALS RF/LF | 23 ☐ SPEED REDUCER | 27 ☒ COOLANT _____ F° |
| 16 ☒ HYDRAULIC | 20 ☐ FINALS RR/LR | 24 ☐ SPINDLE L R | |
| 17 ☐ FRONT DIFF. | 21 ☐ TANDEMS R L | 25 ☐ STEERING | |

OTHERS:

CHECKED

- | | | | |
|--|---|---|---|
| 29 ☒ AIR FILTERS | 39 ☐ UNIV. JOINTS | 49 ☐ BRAKE LIGHTS | 57 ☐ COND OF ROPS & MOUNT BOLTS |
| 30 ☒ BATTERIES | 40 ☒ AIR FILTER INDICATOR | 50 ☒ EXPOSED WIRING | 58 ☐ STARTING AND CHARGING SYSTEM |
| 31 ☐ ALTERNATOR | 41 ☒ PRE-CLEANER | 51 ☐ GRAB IRONS | 59 ☒ ENGINE NOISE, SMOKE, LEAKS |
| 32 ☐ BRAKE RESERVE | 42 ☒ CAPS, COVERS | 52 ☐ ROPS/FOPS | 60 ☒ SEAT BELT CONDITION |
| 33 ☒ GAUGES | 43 ☐ TURN SIGNALS | 53 ☐ SERVICE INTERVAL NOTIFICATION DECAL COMPLETED | 61 ☐ BRAKE ACCUMULATOR CHARGE (OHT) |
| 34 ☐ HORN | 44 ☐ FAN BELTS | 54 ☐ ENGINE VALVE ADJ. _____ INTAKE _____ EXHAUST | 62 ☐ MAIN FRAME BODY SUPP. (OHT) |
| 35 ☐ ROTATING BEACON | 45 ☐ GREASED FITTINGS | 55 ☐ VALVE COVER GASKET REPL. | |
| 36 ☐ PARKING BRAKE | 46 ☐ BREATHERS | 56 ☐ TRANS OPER. NOISE, LEAKS | |
| 37 ☐ INHIBITOR | 47 ☒ FIRE EX CHG. | | |
| 38 ☐ AIR TANKS | 48 ☐ BACK ALARM | | |

OTHER:

WALK AROUND VISUAL INSPECTION

COMMENTS/RECOMMENDATIONS:

ABBREVIATIONS: Yes No RR = Requires Repair OK = No Repair Required NA = Not Applicable MF = Make up Fluid Added

[Signature]

SERVICEMAN SIGNATURE

3-15-21

DATE



"An Equal Opportunity/Affirmative Action Employer"

[Signature]

Incoming / Outgoing Machine Quality Assurance Inspection

Customer: H432

Date: 6-17-19

Model: 314 ELCR

S/N: 25T210

W/O #: 13338

Hours: 7153

Checkmark = OK; X = Needs Repair; NA = Not Applicable

Authorization #
P O #

Fluid Checks	In	Out	Comments
1 Engine Oil:	✓	✓	
2 Engine Coolant:	X	✓	leak
3 Transmission:	NA	✓	
4 Hydraulic:	✓	✓	
5 Finals:	✓	✓	
6 Differentials:	NA	✓	
7 Attachment:	NA	✓	
8 Bevel:	NA	✓	
9 Pump Drive:	NA	✓	
10 Swing/Circle:	✓	✓	
11 Swing Grease	✓	✓	
12 Tandems:	NA	✓	
13 Pivot Shaft:	NA	✓	
14 Fuel:	X	✓	low
15 Service Brakes:	NA	✓	
16 Lubricate Machine:	X	✓	Res CMCTy
17 SOS All	X	✓	last service 6949
18 Batteries	✓	✓	
19 Recoil Housings	NA	✓	
20 Transfer Drive	NA	✓	
21 Feeder Planetaries	NA	✓	

Repair Recommendation:
(continued on back)

Ops Checks

Visual Checks	In	Out	Comments
22 Leaks	X	✓	body
23 Loose Hdw	X	✓	body panel
24 Undercarriage	X	✓	tracks, sprockets, rollers
25 Attachments	X	✓	blade edge
26 Under Guards	✓	✓	
27 Air/Pre Cleaners	✓	✓	
28 Cab/Glass/Clean?	✓	✓	
29 Latches	✓	✓	LT engine door
30 Rails/Steps	✓	✓	
31 Tires/Press	NA	✓	
32 Seat/Belt	✓	✓	
33 Heater/AC	X	✓	heater error
34 Belts/Pulleys	X	✓	replace belt tensioner
35 Travel Alarm	✓	✓	
36 Swing/Parking Brake	✓	✓	
37 Service brakes	NA	✓	
38 Starting	✓	✓	
39 Steering	X	✓	uneven travel
40 Transmission	✓	✓	
41 Gauges	✓	✓	
42 Hydraulics	✓	✓	
43 Implements	X	✓	chain coupler linkage
44 Linkage/Pins	✓	✓	

Incoming Inspector: Neal

Outgoing Inspector: Neal

WORK ORDER

NO. 13338 EQUIPMENT# H-132 LOCATION Shop DATE 6-17-19
HOURS 7153 MILEAGE _____ MECH Neal DATE COMP. 7-10-19
DESCRIPTON OF WORK Coolant leak. Undercarriage.

ITEM

1. Undercarriage
2. Coolant leak
3. Swings on its own
4. Body panels broken
5. Windows broken, missing.
6. Machine inspection.
7. Install hoepack M-093 and test.

WORK ORDER

NO. 13338 EQUIPMENT# H-132 LOCATION Shop DATE 6-17-19
HOURS 7153 MILEAGE _____ MECH Neal DATE COMP. 7-10-19

DESCRIPTION OF WORK Coolant leak - under engine

ITEM	REPAIRS MADE	MECH
1.	Replace tracks, sprockets, idlers, lower rollers, carrier rollers. Rebuilt track adjusters.	NM.
2.	Re-seal tube between water pump and cylinder head.	NM.
3.	Never could get it to swing on its own except when fine swing switch was activated and machine was on a slope. Fine swing releases swing brake. Machine will appear to swing uphill but really counterweight is swinging downhill. Normal position for swing switch is off. Swing brake is released when swing control is activated and re-apply when in a neutral position. Swing switch on releases swing brake to prevent machine from starting or stopping swing abruptly for fine control.	NM.
4.	Removed right hand panel that covers main valve. Welded cracks and welded broken mounting tab. Straightened cab visor mount. Got left rear door open and adjusted hinges and latch. Straightened hinges for roof hatch. Replaced latch and struts, and weatherstrip. Replaced latches for cab door sliding glass.	NM.
5.	New glass in front windshield. replaced rollers. New glass for front lower window. Replaced lower weatherstrip.	NM.
6.	Replace cab filters. Free stuck flaps for heater vents. Filled fuel tank. Replace hydraulic lock handle and switch assembly. Tuned maximum displacement screw on RH pump to get travel synchronized. Filled grease reservoir. Repaired leaking grease lines on stick. Replaced blade edges. Replaced belt and tensioner. Shim stick - coupler joint and bucket/thumb links.	NM.
7.	Install hoepack. Install hold downs on hoses to stick. Set up tool program to 2600 PSI relief and 33 GPM. Replace both male and female couplers on one side.	NM.