

UIN 00C6DCE Diesel Engine

Unit No. MG9

Unit: Caterpillar
 Make: Caterpillar
 Model: 140G
 Serial No.
 Site

Compartment: Diesel Engine
 Name
 Make: Caterpillar
 Model: 140G
 Serial No.
 Capacity:

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

DIAGNOSIS

All wear rates normal. Fuel dilution at problem level. Abrasive and other contaminant levels are acceptable. Viscosity low for specified oil grade. Action: Check fuelling system. As oil and filter(s) already changed, resample after corrective action to further monitor.

ANALYST: Stan Leitz

LEGEND			
			
Severe	Abnormal	Caution	Normal

(800) LUBE-808

DATE SAMPLED	DATE RECEIVED	DATE REPORTED	LAB NO.	SIF NO.	TIME ON UNIT	OIL BRAND	OIL TYPE	OIL GRADE	OIL ADDED	FILTER	OIL CHANGED	WO NUMBER
10-Feb-22	21-Feb-22	23-Feb-22	40111324822	39844010	ml	Chevron	Delo 400 LE	SAE 15W40			Changed	
09-Feb-21	22-Feb-21	04-Mar-21	40111203130	38402973	248 ml	Chevron	Delo 400 LE	SAE 15W40			Not Changed	
30-Mar-20	17-Apr-20	28-Apr-20	40111099176	36813036	17687	Chevron	Delo 400 LE	SAE 15W40			Changed	
21-Oct-19	30-Oct-19	06-Nov-19	40111041436	36049836	17500	Chevron	Delo 400 LE	SAE 15W40			Not Changed	
22-May-19	05-Jul-19	12-Jul-19	40110998164	34911457	17232	Chevron	Delo 400 LE	SAE 15W40			Changed	
30-Oct-17	28-Nov-17	29-Nov-17	40110786946	31072044	16947	Chevron	Delo 400 LE	SAE 15W40			Not Changed	

Metals (ppm)	Iron (Fe)	Chromium (Cr)	Lead (Pb)	Copper (Cu)	Tin (Sn)	Aluminium (Al)	Nickel (Ni)	Silver (Ag)	Titanium (Ti)	Vanadium (V)
18	<1	1	1	<1	2	<1	<1	<1	<1	<1
7	<1	<1	<1	<1	2	<1	<1	<1	<1	<1
9	<1	<1	<1	<1	4	<1	<1	<1	<1	<1
5	<1	<1	<1	<1	3	<1	<1	<1	<1	<1
12	<1	<1	<1	<1	4	<1	<1	<1	<1	<1

Contaminants (ppm)	Silicon (Si)	Sodium (Na)	Potassium (K)
6	3	2	2
3	2	3	2
2	3	2	2

Additives (ppm)	Magnesium (Mg)	Calcium (Ca)	Barium (Ba)	Phosphorus (P)	Zinc (Zn)	Molybdenum (Mo)	Boron (B)
734	1377	<1	727	843	14	96	
666	1283	<1	676	768	14	117	
415	1249	<1	970	949	79	343	
430	1535	<1	1021	1102	98	478	
451	1730	<1	1087	1352	96	478	
427	1641	1	1199	1301	110	534	

Contaminants	Water (%)	Coolant
<0.05	No	No
<0.05	No	No
<0.05	No	No

Physical Tests	Viscosity (cSt 100C)	Fuel (%)	Soot (%) Infrared
10.9	7.8	<0.1	<0.1
11.5	8.4	<0.1	<0.1
11.6	8.9	<0.1	<0.1
12.4	6.3	<0.1	<0.1
11.4	3.5	<0.1	<0.1

Physical / Chemical	Base Number (mgKOH/g)	Oxidation (Abs/0.1mm)	E2412/D7414	Nitration (Abs/0.1mm)
3.6	17	11	10	11
6.8	15	10	10	10
4.7	18	11	10	11
5.8	17	11	10	11
4.4	18	11	10	11
4.8	17	11	10	11

					
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LUBE CHECKLIST

1000/2000 HOUR PREVENTIVE MAINTENANCE CHECKLIST

EQUIPMENT #	1669	JOB #	090	W.O. #	
MODEL	SERIAL NO.	HOUR METER READING		LOCATION	
		18194		R-200	
TYPE OF SERVICE					
<input type="checkbox"/> 1000 HR <input checked="" type="checkbox"/> 2000 HR					

FLUID / FILTERS CHANGED

1	ENGINE OIL AND FILTER CHANGED? FRONT/REAR	<input checked="" type="checkbox"/>
2	TRANSMISSION FILTER CHANGED?	<input checked="" type="checkbox"/>
3	TRANSMISSION OIL CHANGED?	<input checked="" type="checkbox"/>
4	HYDRAULIC FILTER CHANGED?	<input checked="" type="checkbox"/>
5	HYDRAULIC OIL CHANGED?	<input checked="" type="checkbox"/>
6	FUEL FILTER CHANGED & SCREEN CHANGED?	<input checked="" type="checkbox"/>
7	WINCH FILTER CHANGED?	<input checked="" type="checkbox"/>
8	FINAL DRIVE OIL CHANGED? RF/LF/RR/LR?	<input checked="" type="checkbox"/>
9	COOLANT CHANGED	<input checked="" type="checkbox"/>
10	STEERING SYSTEM OIL CHANGED?	<input checked="" type="checkbox"/>
11	DIFFERENTIAL OIL CHANGED?	<input checked="" type="checkbox"/>
12	BRAKE SYSTEM OIL CHANGED?	<input checked="" type="checkbox"/>
13	SWING DRIVE OIL?	<input checked="" type="checkbox"/>

OIL SAMPLES TAKEN AND FLUID LEVELS CHECKED

14	ENGINE F R	<input checked="" type="checkbox"/>	18	REAR DIFF.	<input checked="" type="checkbox"/>
15	TRANS F R	<input checked="" type="checkbox"/>	19	FINAL S. R/LF	<input checked="" type="checkbox"/>
16	HYDRAULIC	<input checked="" type="checkbox"/>	20	FINAL S. R/LR	<input checked="" type="checkbox"/>
17	FRONT DIFF.	<input checked="" type="checkbox"/>	21	TANDEMS R L	<input checked="" type="checkbox"/>
22	CIRCLE DR.	<input checked="" type="checkbox"/>	22	CIRCLE DR.	<input checked="" type="checkbox"/>
23	SPEED REDUCER	<input checked="" type="checkbox"/>	23	SPEED REDUCER	<input checked="" type="checkbox"/>
24	SPINDLE L R	<input checked="" type="checkbox"/>	24	SPINDLE L R	<input checked="" type="checkbox"/>
25	STEERING	<input checked="" type="checkbox"/>	25	STEERING	<input checked="" type="checkbox"/>
26	SWING DR.	<input checked="" type="checkbox"/>	26	SWING DR.	<input checked="" type="checkbox"/>
27	COOLANT	<input checked="" type="checkbox"/>	27	COOLANT	<input checked="" type="checkbox"/>

WALK AROUND VISUAL INSPECTION

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

OTHERS:

COMMENTS/RECOMMENDATIONS:

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

SERVICEMAN SIGNATURE: *[Signature]*

DATE: 2-11-22



LUBE CHECKLIST

1000/2000 HOUR PREVENTIVE MAINTENANCE CHECKLIST

EQUIPMENT #	17232 HCR	JOB #	040	W.O. #	
MODEL	SERIAL NO.	HOUR METER READING			
OTHER	LOCATION				
TYPE OF SERVICE		<input checked="" type="checkbox"/> 1000 HR <input type="checkbox"/> 2000 HR			

1	ENGINE OIL AND FILTER CHANGED? FRONT/REAR	<input checked="" type="checkbox"/>
2	TRANSMISSION FILTER CHANGED?	<input checked="" type="checkbox"/>
3	TRANSMISSION OIL CHANGED?	<input checked="" type="checkbox"/>
4	HYDRAULIC FILTER CHANGED?	<input checked="" type="checkbox"/>
5	HYDRAULIC OIL CHANGED?	<input checked="" type="checkbox"/>
6	FUEL FILTER CHANGED & SCREEN CHANGED?	<input checked="" type="checkbox"/>
7	WINCH FILTER CHANGED?	<input checked="" type="checkbox"/>
8	FINAL DRIVE OIL CHANGED? R/L/F/R/L/R?	<input checked="" type="checkbox"/>
9	COOLANT CHANGED	<input checked="" type="checkbox"/>
10	STEERING SYSTEM OIL CHANGED?	<input checked="" type="checkbox"/>
11	DIFFERENTIAL OIL CHANGED?	<input checked="" type="checkbox"/>
12	BRAKE SYSTEM OIL CHANGED?	<input checked="" type="checkbox"/>
13	SWING DRIVE OIL?	<input checked="" type="checkbox"/>

14	ENGINE F R	<input checked="" type="checkbox"/>	REAR DIFE.	<input checked="" type="checkbox"/>	22	CIRCLE DR.	<input checked="" type="checkbox"/>	26	SWING DR.	<input checked="" type="checkbox"/>
15	TRANS F R	<input checked="" type="checkbox"/>	FINALS BELT	<input checked="" type="checkbox"/>	23	SPEED REDUCER	<input checked="" type="checkbox"/>	27	COOLANT	<input checked="" type="checkbox"/>
16	HYDRAULIC	<input checked="" type="checkbox"/>	FINALS R/L/R	<input checked="" type="checkbox"/>	24	SPINDLE R	<input checked="" type="checkbox"/>			
17	FRONT DIFE	<input checked="" type="checkbox"/>	TANDEMS R/L	<input checked="" type="checkbox"/>	25	STEERING	<input checked="" type="checkbox"/>			

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

WALK AROUND VISUAL INSPECTION

COMMENTS/RECOMMENDATIONS: B3700, 1K-0750, 1K-0719(X2), 132-8875, samples

ABBREVIATIONS: YES, NO, NR - Features Repair, CR - No Repair Required, NA = Not Applicable, NIF = Make up Fluid Added

SERVICE MAN SIGNATURE: [Signature]

DATE: 5-22-19



At Equal Opportunity/Affirmative Action Employer

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LUBE CHECKLIST

250 HOUR PREVENTIVE MAINTENANCE CHECKLIST

EQUIPMENT #	169-9	JOB #	999	W.O. #	
MODEL		SERIAL NO.		HOUR METER READING	16947
OTHER	LOCATION				
TYPE OF SERVICE	<input checked="" type="checkbox"/> 250 HR <input type="checkbox"/> 750 HR <input type="checkbox"/> 1250 HR <input type="checkbox"/> 1750 HR				

ENGINE OIL & FILTER CHANGE?	<input checked="" type="checkbox"/> FRONT / REAR	ENGINE OIL SAMPLE TAKEN?	<input checked="" type="checkbox"/> FRONT / REAR	FUEL FILTER CHANGED & SCREEN CLEANED?	<input checked="" type="checkbox"/>
FLUID / FILTERS CHANGED					

1	<input checked="" type="checkbox"/> ENGINE F R	5	<input checked="" type="checkbox"/> REAR DIEE	9	<input checked="" type="checkbox"/> CIRCLE DR	13	<input checked="" type="checkbox"/> SWING DR
2	<input checked="" type="checkbox"/> TRANS F R	6	<input checked="" type="checkbox"/> FINALS R/L/F	10	<input checked="" type="checkbox"/> SPEED REDUCER	14	<input checked="" type="checkbox"/> COOLANT
3	<input checked="" type="checkbox"/> HYDRAULIC	7	<input checked="" type="checkbox"/> FINALS R/L/R	11	<input checked="" type="checkbox"/> SPINDLE TR		
4	<input checked="" type="checkbox"/> FRONT DIFF	8	<input checked="" type="checkbox"/> TANDEMS R/L	12	<input checked="" type="checkbox"/> STEERING		
FLUID LEVELS CHECKED							

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

WALK AROUND VISUAL INSPECTION	
COMMENTS/RECOMMENDATIONS:	<i>Sample Above</i>

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

SERVICEMAN SIGNATURE

[Signature]

DATE
10-30-17

[Initials]



"An Equal Opportunity/Affirmative Action Employer"

Incoming / Outgoing Machine Quality Assurance Inspection

Customer: M6-9 Date: 1-9-19
 Model: 1406 S/N: 72V17005
 W/O #: 14730 Hours: 17178
 Checkmark = OK; X = Needs Repair; NA = Not Applicable

Authorization # _____
 P O # _____

Fluid Checks	In		Out		Comments
	In	Out	In	Out	
1 Engine Oil:	✓	✓	✓	✓	
2 Engine Coolant:	✓	✓	✓	✓	
3 Transmission:	✓	✓	✓	✓	
4 Hydraulic:	✓	✓	✓	✓	
5 Finals:	NA	—	NA	—	
6 Differentials:	✓	✓	✓	✓	
7 Attachment:	NA	—	NA	—	
8 Bevel:	NA	—	NA	—	
9 Pump Drive:	NA	—	NA	—	
10 Swing/Circle:	X	✓	X	✓	Topped off
11 Swing Grease	NA	—	NA	—	
12 Tandems:	✓	✓	✓	✓	
13 Pivot Shaft:	NA	—	NA	—	
14 Fuel:	✓	✓	✓	✓	
15 Service Brakes:	NA	—	NA	—	
16 Lubricate Machine:	X	✓	X	✓	Grease
17 SOS All	X	✓	X	✓	last service 16,947
18 Batteries	✓	✓	✓	✓	
19 Recoil Housings	NA	—	NA	—	
20 Transfer Drive	NA	—	NA	—	
21 Feeder Planetaries	NA	—	NA	—	

Visual Checks	In		Out		Comments
	In	Out	In	Out	
22 Leaks	X	✓	X	✓	Hoses, Air dryer
23 Loose Hw	X	✓	X	✓	bolt for circle drive cover
24 Undercarriage	✓	✓	✓	✓	
25 Attachments	✓	✓	✓	✓	
26 Under Guards	✓	✓	✓	✓	
27 Air/Pre Cleaners	✓	✓	✓	✓	
28 Cab/Glass/Clean?	✓	✓	✓	✓	
29 Latches	X	✓	X	✓	engine door
30 Rails/Steps	✓	✓	✓	✓	
31 Tires/Press	✓	✓	✓	✓	
32 Seat/Belt	✓	✓	✓	✓	

Ops Checks	In		Out		Comments
	In	Out	In	Out	
33 Heater/AC	✓	✓	✓	✓	
34 Belts/Pulleys	✓	✓	✓	✓	
35 Travel Alarm	✓	✓	✓	✓	
36 Swing/Parking Brake	✓	✓	✓	✓	
37 Service brakes	X	✓	X	✓	Air dryer tank
38 Starting	✓	✓	✓	✓	
39 Steering	✓	✓	✓	✓	
40 Transmission	✓	✓	✓	✓	
41 Gauges	✓	✓	✓	✓	
42 Hydraulics	✓	✓	✓	✓	
43 Implements	✓	✓	✓	✓	
44 Linkage/Pins	✓	✓	✓	✓	

Repair Recommendation:
 (continued on back)

Incoming Inspector: Neal
 Outgoing Inspector: Neal

Incoming / Outgoing Machine Quality Assurance Inspection

Customer: MG-9
 Model: 1400
 W/O #: 25422

Date: 2-1-21
 S/N: 72V17005
 Hours: 17935

Authorization # _____
 P O # _____

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

Fluid Checks		In		Out		Comments	
1	Engine Oil:	✓	✓				
2	Engine Coolant:	✓	✓				
3	Transmission:	✓	✓				
4	Hydraulic:	✓	✓				
5	Finals:	NA	NA				
6	Differentials:	NA	NA				
7	Attachment:	NA	NA				
8	Bevel:	NA	NA				
9	Pump Drive:	NA	NA				
10	Swing/Circle:	✓	✓				
11	Swing Grease	✓	✓				
12	Tandems:	✓	✓				
13	Pivot Shaft:	NA	NA				
14	Fuel:	✓	✓				
15	Service Brakes:	NA	NA				
16	Lubricate Machine:	✓	✓				
17	SOS All	X	X				250 sample dust
18	Batteries	✓	✓				
19	Recoil Housings	NA	NA				
20	Transfer Drive	NA	NA				
21	Feeder Planetaries	NA	NA				

Visual Checks		In		Out		Comments	
22	Leaks	X	X				Hyd. reg. oil, Air
23	Loose Hrdwr	X	X				blade slide brass
24	Undercarriage	✓	✓				
25	Attachments	✓	✓				
26	Under Guards	✓	✓				
27	Air/Pre Cleaners	✓	✓				
28	Cab/Glass/Clean?	✓	✓				
29	Latches	✓	✓				
30	Rails/Steps	✓	✓				
31	Tires/Press	✓	✓				
32	Seat/Belt	✓	✓				

Ops Checks		In		Out		Comments	
33	Heater/AC	✓	✓				
34	Belts/Pulleys	✓	✓				
35	Travel Alarm	✓	✓				
36	Swing/Parking Brake	✓	✓				
37	Service brakes	✓	✓				
38	Starting	✓	✓				
39	Steering	X	X				Column strut
40	Transmission	✓	✓				
41	Gauges	✓	✓				
42	Hydraulics	X	X				LH left cyl. leaks
43	Implements	✓	✓				
44	Linkage/Pins	✓	✓				

Repair Recommendation:
 (continued on back)

Incoming Inspector: Neal
 Outgoing Inspector: Neal

Incoming / Outgoing Machine Quality Assurance Inspection

Customer: MG-9
 Model: 140G
 W/O #: 13263

Date: 1-11-18
 S/N: 72V17005
 Hours: 16979

Authorization #
 P O #

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

Fluid Checks		Visual Checks		Ops Checks			
In	Out	In	Out	In	Out		
1	Engine Oil:	<input checked="" type="checkbox"/>		22	Leaks	<input checked="" type="checkbox"/>	
2	Engine Coolant:	<input checked="" type="checkbox"/>		23	Loose Hrdwr	<input checked="" type="checkbox"/>	
3	Transmission/Diff:	<input checked="" type="checkbox"/>		24	Undercarriage		
4	Hydraulic:	<input checked="" type="checkbox"/>		25	Attachments		
5	Finals:			26	Under Guards		
6	Differentials:			27	Air/Pre Cleaners	<input checked="" type="checkbox"/>	
7	Attachment:			28	Cab/Glass/Clean?	<input checked="" type="checkbox"/>	
8	Bevel Circle Drive:	<input checked="" type="checkbox"/>		29	Latches	<input checked="" type="checkbox"/>	
9	Pump Drive:			30	Rails/Steps	<input checked="" type="checkbox"/>	
10	Swing/Circle:			31	Tires/Press	<input checked="" type="checkbox"/>	
11	Swing Grease:			32	Seat/Belt	<input checked="" type="checkbox"/>	
12	Tandems:	<input checked="" type="checkbox"/>			Size ext.		
13	Pivot Shaft:			33	Heater/AC	<input checked="" type="checkbox"/>	
14	Fuel:			34	Belts/Pulleys	<input checked="" type="checkbox"/>	
15	Service Brakes:			35	Travel Alarm	<input checked="" type="checkbox"/>	
16	Lubricate Machine:	<input checked="" type="checkbox"/>		36	Swing/Parking Brake	<input checked="" type="checkbox"/>	
17	SOS All:			37	Service brakes	<input checked="" type="checkbox"/>	
18	Batteries:	<input checked="" type="checkbox"/>		38	Starting	<input checked="" type="checkbox"/>	
19	Recoil Housings:			39	Steering	<input checked="" type="checkbox"/>	
20	Transfer Drive:			40	Transmission	<input checked="" type="checkbox"/>	
21	Feeder Planetaries:			41	Gauges	<input checked="" type="checkbox"/>	
				42	Hydraulics	<input checked="" type="checkbox"/>	
				43	Implements	<input checked="" type="checkbox"/>	
				44	Linkage/Pins	<input checked="" type="checkbox"/>	

Repair Recommendation:

(continued on back) Need New Fan belts
 Need to adjust Throttle Pedal Need Right Side handle to hold open latch + catch left + Right
 Need Left Side handle Need left + Right + tie Rod ends + ~~steers~~ steers cyl. Base end Pin/Bushing
 Left Front Turn Sig. Light out Leak @ Left control Valve Leak @ Hyd. Pump
 Incoming Inspector: AREN HYDE
 Outgoing Inspector: _____
 Bottom center hinge Pin Plate worn + 2 Broken Bolts
 Missing Bolt @ R F Side Panel
 Leak @ circle side shaft cyl. Rod end hose (o-ring)
 Need new Blade Brackets Left / Right / Center
 + all new Brass
 need to adjust Circle



WORK ORDER

NO. 13263 EQUIPMENT# MG-9 LOCATION Shop DATE 1-11-18
 HOURS 16979 MILEAGE MECH AREN DATE COMP. 1-26-18

DESCRIPTION OF WORK Complete inspection / Blade Repairs.

ITEM	DESCRIPTION
1	complete inspection
2	Replace fan belts
3	adjust Throttle Pedal
4	Repair Door latches
5	Replace left side mirror
6	Replace left & Right Tire Rod ends
7	Replace steering cyl. base end Pins/Bushings.
8	Repair leak @ Left control Valve
9	Repair leaks @ main Hyd. Pump
10	Replace Bottom actic Pin Retainer Plate & Broken bolts
11	Repair leak @ Circle side shift cyl. Rod end hose (0-514)
12	adjust Circle
13	Replace left/Right/center Blade Brackets / Tie Bolt & Pivot shaft & all Brass,
14	install new edges & hardware on blade.

WORK ORDER

NO. 11979 EQUIPMENT# APEN/ LOCATION 1-11-18 DATE

HOURS 11.979 MILEAGE APEN/ MECH 1-26-18 DATE COMP.

DESCRIPTION OF WORK Complete inspection / Blade Repair

REPAIRS MADE

MECH

ITEM	DESCRIPTION
1	Complete inspection see attached
2	RtI fan Belts & cleaned Rod.
3	adjust Throttle Pedal & modify stop pedal
4	RtI left & Right Door hold open latches & adjust.
5	install new left side mirror
6	RtI left & Right The Rod ends.
7	RtI steering cyl. Base end Pins/Bushings/Spacers.
8	Clean & test left control valve & found leak @ ORB fittings @ front of control valve for left blade lift cyl. Reseal Clean & test ok.
9	test & found leak @ Pump control valve - Pump case Remove & Replace seals. & Replace O-rings on Pump Discharge hoses & test ok.
10	Remove Bottom Plate & Remove Broken Belts Clean & install new plate with new shims @ -.010" & .015" galls.
11	Replaced ORFS O-rings @ Rod end of circle side shift cyl.
12	adjust circle @ .020" rod verticle & .015" horizontal
13	RtI Left/Right/center Blade Brackets & The Bolt & Pivot shaft & Tilt cyl Rod end Pin & Bushing & Reinstall Blade with all new Brass & adjust.
14	install New edges with all new hardware & Turn end Bits