



LubeWatch®

UIN 0469B08 Diesel Engine

Unit No. **DZ-48**

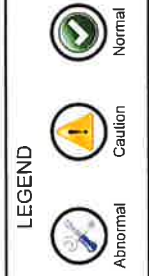
Unit:
Make Caterpillar
Model D6R
Serial No. HDC00219
Site

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

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

DIAGNOSIS
All wear rates normal. Minor fuel dilution occurring.
Other contaminant levels acceptable. Viscosity low for
specified oil grade. Action: Check fueling system. As
oil already changed, resample at a reduced service
interval to further monitor.

ANALYST: roldan.beldad



DATE SAMPLED	19-Feb-22	07-Jun-21	27-Jan-21	15-Jun-20	17-Feb-20	29-Aug-19
DATE RECEIVED	25-Feb-22	23-Jun-21	04-Feb-21	22-Jun-20	27-Feb-20	17-Sep-19
DATE REPORTED	01-Mar-22	29-Jun-21	05-Feb-21	29-Jun-20	03-Mar-20	23-Sep-19
LAB NO.	40111326615	40111243596	40111197765	40111120683	40111082391	40111024444
SIF NO.	39844197	38710957	38402935	37237866	36812943	36049978
TIME ON UNIT	Hrs 7813	Hrs 7551	7304	7074	6612	6600
TIME ON OIL						373
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	Changed	Not Changed	Changed	Not Changed	Changed	Not Changed
WO NUMBER						

Metals (ppm)

Iron (Fe)	33	12	23	14	13	7
Chromium (Cr)	<1	<1	<1	<1	<1	<1
Lead (Pb)	2	<1	2	<1	<1	<1
Copper (Cu)	7	3	8	6	7	1
Tin (Sn)	<1	<1	2	<1	<1	<1
Aluminium (Al)	5	3	4	3	4	5
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	2	2

Contaminants (ppm)

Silicon (Si)	6	5	4	4	4	3
Sodium (Na)	3	3	3	3	3	3
Potassium (K)	<1	<1	3	2	2	2

Additives (ppm)

Magnesium (Mg)	833	791	788	779	546	431
Calcium (Ca)	1685	1565	1477	1433	1474	1560
Barium (Ba)	<1	<1	<1	<1	<1	<1
Phosphorus (P)	891	902	738	791	965	1038
Zinc (Zn)	1065	981	887	863	1060	1215
Molybdenum (Mo)	29	42	6	8	64	91
Boron (B)	67	95	70	87	273	495

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)	11.0	12.3	11.2	12.4	12.1	12.5
Fuel (%)	4.8	<1.0	7.5	2.3	3.4	2.4
Soot (%) Infrared	0.1	<0.1	0.1	<0.1	<0.1	<0.1

Physical / Chemical

Base Number (mgKOH/g)	4.2	4.2	4.4	4.4	4.5	6.1
Oxidation (Abs/0.1mm)	21	17	20	18	20	17
E2412/D7414						
Nitration (Abs/0.1mm) E2412	11	10	11			

(800) LUBE-808



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SERVICEMAN SIGNATURE

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DATE

2-19-22

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

COMMENTS/RECOMMENDATIONS:

WALK AROUND VISUAL INSPECTION

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

CHECKED

OTHERS:	17	<input checked="" type="checkbox"/>	FRONT DIFF.
	16	<input checked="" type="checkbox"/>	HYDRAULIC
	15	<input checked="" type="checkbox"/>	TRANS F R
	14	<input checked="" type="checkbox"/>	ENGINE F R
	21	<input checked="" type="checkbox"/>	REAR DIFF.
	20	<input checked="" type="checkbox"/>	FINALS R/FL
	19	<input checked="" type="checkbox"/>	FINALS R/L
	18	<input checked="" type="checkbox"/>	FINALS R/R
	22	<input checked="" type="checkbox"/>	TANDEMS R/L
	23	<input checked="" type="checkbox"/>	SPINDLER
	24	<input checked="" type="checkbox"/>	SPEED REDUCER
	25	<input checked="" type="checkbox"/>	SWING DR.
	26	<input checked="" type="checkbox"/>	COOLANT
	27	<input checked="" type="checkbox"/>	STEERING

OIL SAMPLES TAKEN AND FLUID LEVELS CHECKED

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

FLUID / FILTERS CHANGED

TYPE OF SERVICE		<input type="checkbox"/> 1000 HR	<input checked="" type="checkbox"/> 2000 HR
EQUIPMENT #	D248	JOB #	090
MODEL		SERIAL NO.	
OTHER		LOCATION	R-200
		HOUR METER READING	7813
		W.O. #	

1000/2000 HOUR PREVENTIVE MAINTENANCE CHECKLIST

LUBE CHECKLIST





LUBE CHECKLIST

250 HOUR PREVENTIVE MAINTENANCE CHECKLIST

EQUIPMENT #	0248	JOB #	090	W.O. #	
MODEL		SERIAL NO.		HOUR METER READING	7551
OTHER		LOCATION	R-200		
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 DIFF	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 RR/RL	11	<input checked="" type="checkbox"/> SPINDELTR		
4	<input checked="" type="checkbox"/> FRONT DIFF	8	<input checked="" type="checkbox"/> TANDEM S RL	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:

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



"An Equal Opportunity/Affirmative Action Employer"

SERVICEMAN SIGNATURE

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DATE

6-7-21

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LUBE CHECKLIST

500 HOUR PREVENTIVE MAINTENANCE CHECKLIST

EQUIPMENT #	0248	JOB #	077	W.O. #	
MODEL		SERIAL NO.		HOUR METER READING	7304
OTHER	LOCATION 7-200				
TYPE OF SERVICE	<input checked="" type="checkbox"/> 500 HR	<input type="checkbox"/> 1500 HR			

FLUID / FILTERS CHANGED

<input checked="" type="checkbox"/> 1 ENGINE OIL AND FILTER CHANGED? FRONT/REAR	<input checked="" type="checkbox"/> 3 HYDRAULIC FILTER CHANGED?	<input checked="" type="checkbox"/> 4 FUEL FILTER CHANGED AND SCREEN CLEANED?	<input checked="" type="checkbox"/> 6 WINDH FILTER CHANGED?
<input checked="" type="checkbox"/> 2 TRANSMISSION FILTER CHANGED?	<input checked="" type="checkbox"/> 5 CHANGED HYD STEERING FILTER (OHT)		

OIL SAMPLES TAKEN AND FLUID LEVELS CHECKED

<input checked="" type="checkbox"/> 7 ENGINE F R	<input checked="" type="checkbox"/> 15 SINGLE DR.	<input checked="" type="checkbox"/> 19 SWING DR.
<input checked="" type="checkbox"/> 8 TRANS F R	<input checked="" type="checkbox"/> 16 SPEED REDUCER	<input checked="" type="checkbox"/> 20 COOLANT
<input checked="" type="checkbox"/> 9 HYDRAULIC	<input checked="" type="checkbox"/> 17 SPINDLE LR	
<input checked="" type="checkbox"/> 10 FRONT DFF	<input checked="" type="checkbox"/> 14 TANDEMS RL	
<input checked="" type="checkbox"/> 11 REAR DFF	<input checked="" type="checkbox"/> 13 FINALS R/RLR	
<input checked="" type="checkbox"/> 12 FINALS R/FLF	<input checked="" type="checkbox"/> 15 SINGLE DR.	
	<input checked="" type="checkbox"/> 16 SPEED REDUCER	
	<input checked="" type="checkbox"/> 17 SPINDLE LR	
	<input checked="" type="checkbox"/> 18 STEERING	

CHECKED

<input checked="" type="checkbox"/> 22 AIR FILTERS	<input checked="" type="checkbox"/> 30 INHIBITOR	<input checked="" type="checkbox"/> 38 GREASED FITTINGS	<input checked="" type="checkbox"/> 46 SEAT BELT CONDITION
<input checked="" type="checkbox"/> 23 BATTERIES	<input checked="" type="checkbox"/> 31 AIR TANKS	<input checked="" type="checkbox"/> 39 BREATHERS	<input checked="" type="checkbox"/> 47 SERVICE INTERVAL NOTIFICATION DECAL COMPLETED
<input checked="" type="checkbox"/> 24 ALTERNATOR	<input checked="" type="checkbox"/> 32 UNIV. JOINTS	<input checked="" type="checkbox"/> 40 FIRE EX CHG.	<input checked="" type="checkbox"/> 47 SERVICE INTERVAL NOTIFICATION DECAL COMPLETED
<input checked="" type="checkbox"/> 25 BRAKE RESERVE	<input checked="" type="checkbox"/> 33 AIR FILTER INDICATOR	<input checked="" type="checkbox"/> 41 BACK ALARM	<input checked="" type="checkbox"/> 48 FRONT AXLE BEARING(MTG)
<input checked="" type="checkbox"/> 26 GAUGES	<input checked="" type="checkbox"/> 34 PRE-CLEANER	<input checked="" type="checkbox"/> 42 BRAKE LIGHTS	<input checked="" type="checkbox"/> 49 RECOIL OIL COMPARTMENT (HIGH TRACK)
<input checked="" type="checkbox"/> 27 HORN	<input checked="" type="checkbox"/> 35 CAPS, COVERS	<input checked="" type="checkbox"/> 43 EXPOSED WIRING	<input checked="" type="checkbox"/> 50 HYD. STEERING FILTER (OHT)
<input checked="" type="checkbox"/> 28 ROTATING BEACON	<input checked="" type="checkbox"/> 36 TURN SIGNALS	<input checked="" type="checkbox"/> 44 GRAB IRONS	
<input checked="" type="checkbox"/> 29 PARKING BRAKE	<input checked="" type="checkbox"/> 37 FAN BELTS	<input checked="" type="checkbox"/> 45 ROPS/FOPS	

WALK AROUND VISUAL INSPECTION

COMMENTS/RECOMMENDATIONS:

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

SERVICEMAN SIGNATURE

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DATE

1-27-21

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LUBE CHECKLIST

250 HOUR PREVENTIVE MAINTENANCE CHECKLIST

EQUIPMENT #	D248	JOB #	077	W.O. #	
MODEL		SERIAL NO.		HOUR METER READING	7074
OTHER		LOCATION	L200		
TYPE OF SERVICE <input checked="" type="checkbox"/> 250 HR <input type="checkbox"/> 750 HR <input type="checkbox"/> 1250 HR <input type="checkbox"/> 1750 HR					
FLUID / FILTERS CHANGED					
ENGINE OIL & FILTER CHANGE?	yes		FRONT / REAR		
ENGINE OIL SAMPLE TAKEN?	yes		FRONT / REAR		
FUEL FILTER CHANGED & SCREEN CLEANED?	no				

FLUID LEVELS CHECKED

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

OTHERS:

CHECKED

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

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

SERVICEMAN SIGNATURE: *[Signature]*

DATE: 6-15-20



"An Equal Opportunity/Affirmative Action Employer"

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LUBE CHECKLIST

1000/2000 HOUR PREVENTIVE MAINTENANCE CHECKLIST

EQUIPMENT #	1248	JOB #	077	W.O. #	
MODEL		SERIAL NO.		HOUR METER READING	6812
OTHER	LOCATION L200				
TYPE OF SERVICE	<input checked="" type="checkbox"/> 1000 HR	<input 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	WINDH FILTER CHANGED?	<input checked="" type="checkbox"/>
8	FINAL DRIVE OIL CHANGED? R/L/F/R/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"/>

OIL SAMPLES TAKEN AND FLUID LEVELS CHECKED

14	ENGINE F R	<input checked="" type="checkbox"/>
15	TRANS F R	<input checked="" type="checkbox"/>
16	HYDRAULIC	<input checked="" type="checkbox"/>
17	FRONT DIFF.	<input checked="" type="checkbox"/>
18	BEAR DIFF.	<input checked="" type="checkbox"/>
19	FINALS R/L/F	<input checked="" type="checkbox"/>
20	FINALS R/L/R	<input checked="" type="checkbox"/>
21	TANDEMS B.L	<input checked="" type="checkbox"/>
22	GIROLE DR.	<input checked="" type="checkbox"/>
23	SPEED REDUGER	<input checked="" type="checkbox"/>
24	SPINDLE L/R	<input checked="" type="checkbox"/>
25	STEERING	<input checked="" type="checkbox"/>
26	SWING DR.	<input checked="" type="checkbox"/>
27	COOLANT	<input checked="" type="checkbox"/>

WALK AROUND VISUAL INSPECTION

29	AIR FILTERS	<input checked="" type="checkbox"/>
30	BATTERIES	<input checked="" type="checkbox"/>
31	ALTERNATOR	<input checked="" type="checkbox"/>
32	BRAKE RESERVE	<input checked="" type="checkbox"/>
33	GAUGES	<input checked="" type="checkbox"/>
34	HORN	<input checked="" type="checkbox"/>
35	ROTATING BEACON	<input checked="" type="checkbox"/>
36	PARKING BRAKE	<input checked="" type="checkbox"/>
37	INHIBITOR	<input checked="" type="checkbox"/>
38	AIR TANKS	<input checked="" type="checkbox"/>
39	UNIV. JOINTS	<input checked="" type="checkbox"/>
40	AIR FILTER INDICATOR	<input checked="" type="checkbox"/>
41	PRE-CLEANER	<input checked="" type="checkbox"/>
42	CAPS, COVERS	<input checked="" type="checkbox"/>
43	TURN SIGNALS	<input checked="" type="checkbox"/>
44	FAN BELTS	<input checked="" type="checkbox"/>
45	GREASED FITTINGS	<input checked="" type="checkbox"/>
46	BREATHERS	<input checked="" type="checkbox"/>
47	FIRE EX CHG.	<input checked="" type="checkbox"/>
48	BACK ALARM	<input checked="" type="checkbox"/>
49	BRAKE LIGHTS	<input checked="" type="checkbox"/>
50	EXPOSED WIRING	<input checked="" type="checkbox"/>
51	GRAB IRONS	<input checked="" type="checkbox"/>
52	POPS/FOPS	<input checked="" type="checkbox"/>
53	SERVICE INTERVAL	<input checked="" type="checkbox"/>
54	ENGINE VALVE ADJ.	<input checked="" type="checkbox"/>
55	VALVE COVER GASKET REPL.	<input checked="" type="checkbox"/>
56	TRANS OPER. NOISE, LEAKS	<input checked="" type="checkbox"/>
57	COND OF ROPS & MOUNT BOLTS	<input checked="" type="checkbox"/>
58	STARTING AND CHARGING SYSTEM	<input checked="" type="checkbox"/>
59	ENGINE NOISE, SMOKE, LEAKS	<input checked="" type="checkbox"/>
60	BEAT BELT CONDITION	<input checked="" type="checkbox"/>
61	BRAKE ACCUMULATOR CHARGE (OHT)	<input checked="" type="checkbox"/>
62	MAIN FRAME BODY SUPP. (OHT)	<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: 2-17-20

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LUBE CHECKLIST

250 HOUR PREVENTIVE MAINTENANCE CHECKLIST

EQUIPMENT #	02-48	JOB #		W.O. #	16057
MODEL	NOR	SERIAL NO.		HOUR METER READING	6600
OTHER		LOCATION	Shop		
TYPE OF SERVICE <input checked="" type="checkbox"/> 250 HR <input type="checkbox"/> 750 HR <input type="checkbox"/> 1250 HR <input type="checkbox"/> 1750 HR					

FLUID / FILTERS CHANGED

ENGINE OIL & FILTER CHANGE?	FRONT / REAR	ENGINE OIL SAMPLE TAKEN?	FRONT / REAR	FUEL FILTER CHANGED & SCREEN CLEANED?

FLUID LEVELS CHECKED

1	ENGINE F R	5	REAR DIFF.	9	CIRCLE DR.	13	SWING DR.
2	TRANS F R	6	FINALS R/L/F	10	SPEED REDUCER	14	COOLANT
3	HYDRAULIC	7	FINALS R/L/R	11	SPINDLE 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	SEAT BELT CONDITION
21	HORN	28	PRE-CLEANER	35	BACK ALARM		SERVICE INTERVAL
22	ROTATING BEACON	29	CAPS, COVERS	36	BRAKE LIGHTS		NOTIFICATION DECAL
OTHERS:							

WALK AROUND VISUAL INSPECTION

COMMENTS/RECOMMENDATIONS:

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

SERVICEMAN SIGNATURE: *[Signature]*

DATE: *2-2-02*



"An Equal Opportunity/Affirmative Action Employer"

[Handwritten mark]

Incoming / Outgoing Machine Quality Assurance Inspection

Customer: DZ-48 Date: 9-28-20
 Model: DOR XW Series III SIN: HDC 219
 W/O #: 13312 Hours: 1187

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:	✓	✓	
6	Differentials:	NA	NA	
7	Attachment:	NA	NA	
8	Bevel:	NA	NA	
9	Pump Drive:	NA	NA	
10	Swing/Circle:	NA	NA	
11	Swing Grease	NA	NA	
12	Tandems:	NA	NA	
13	Pivot Shaft:	✓	✓	
14	Fuel:	✓	✓	
15	Service Brakes:	NA	NA	
16	Lubricate Machine:	X	X	BRAKE
17	SOS All	X	X	last service 6/8/20
18	Batteries	✓	✓	
19	Recoil Housings	✓	✓	
20	Transfer Drive	NA	NA	
21	Feeder Planetaries	NA	NA	

Visual Checks		In	Out	Comments
22	Leaks	X	✓	HEAVY LEAKS AT BOTTOM
23	Loose Hrdwr	✓	✓	
24	Undercarriage	✓	✓	
25	Attachments	✓	✓	
26	Under Guards	✓	✓	
27	Air/Pre Cleaners	✓	✓	
28	Cab/Glass/Clean?	✓	✓	
29	Latches	✓	✓	
30	Rails/Steps	✓	✓	
31	Tires/Press	NA	NA	
32	Seat/Belt	✓	✓	

Ops Checks		In	Out	Comments
33	Heater/AC	NA	NA	
34	Belts/Pulleys	✓	✓	
35	Travel Alarm	✓	✓	
36	Swing/Parking Brake	✓	✓	
37	Service brakes	✓	✓	
38	Starting	✓	✓	
39	Steering	✓	✓	
40	Transmission	✓	✓	
41	Gauges	✓	✓	NA 1st 2nd
42	Hydraulics	✓	✓	
43	Implements	✓	✓	
44	Linkage/Pins	✓	✓	

Repair Recommendation:
 (continued on back)

Incoming Inspector: Neal

Outgoing Inspector: Neal

N C MACHINERY



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AK - (907) 786-7500

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WA05A 3309

INVOICE NUMBER	INVOICE DATE	CUSTOMER NUMBER	CUSTOMER ORDER NUMBER	STORE	DIV	SALESMAN	TERMS	PAGE
MN10503	09-29-20	3710400		28	W	BKM	2	1
PSO/WO NO.	DOC. DATE	PC	LC	MC	SHIP VIA			
MN10503	08-26-20	10	10	10				
MAKE	MODEL	SERIAL NUMBER	EQUIPMENT NUMBER	METER READING	MACHINE ID NO.			
AA	DER XWPAT	*CAT00D6RJHDC00219*	DZ48	7182.0	26W58113			
QUANTITY	ITEM	N/R	DESCRIPTION	UNIT PRICE	EXTENSION			

* * * * * PROFORMA INVOICE * * * * *

T/S TRANSMISSION

TROUBLESHOOT TRANSMISSION

CUSTOMER CONCERN
TECH ID: 3775 -- MONDAY, AUGUST 31, 2020 7:45 PM
- TROUBLE SHOOT WHY TRANSMISSION NOT GOING INTO
FIRST, SECOND GEAR.
REPAIR COMMENTS

TECH ID: 3775 -- MONDAY, AUGUST 31, 2020 7:48 PM
- TROUBLE SHOOTING WHY MACHINES NOT GOING INTO
FIRST AND SECOND GEAR. PULLING PSR. FOUND THE
MACHINE ECM WAS OUT OF DATE AND UPDETEDE SOFTWARE
STILL THROWING CODE. CHECKING FOR CODES AND FOUND
THE 2 OUTPUT SPEED SENORS WHERE THROWING ACTIVE
CODES. GOING THREW TROUBLE SHOOTING PROCEDURE.
CHECKING WIRING AND IS GOOD. CHECKING SENSORS AND
WHEN OLMING OUT SENSORS THE SENSORS WERE 1000LMS
OUT OF SPEC. ORDERING NEW SENSORS. INSTALLING ONE
SPEED SENSOR THAT I COULD GET TO WITH OUT PULLING
TRANSMISSION OUT. ONCE SENSOR WAS IN AND RUNNING
AND STILL NOT WORKING. WHEN RUNNING MACHINE COULD
NOT GET TRANSMISSION TO ACT UP. RUNNING MACHINE
AND GETTING HOT. GOING THREW TEST AND ALL PASSING.
HAVING CUSTOMER RUN MACHINE AND GET TRANSMISSION
TO ACT UP. MACHINE NOW IS LOCKED OUT OF FIRST AND
SECOND. GOING THREW TROUBLE SHOOTING. HOOKING UP

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FOLLOWING THE DATE OF PURCHASE. MACHINE INVOICES NET 10 DAYS FROM DATE
OF INVOICE.

Each payment or sum past due shall bear a late payment charge of the lesser of 1.12%
per month, which is an annual percentage rate of 18%, or an amount not to exceed the
highest rate permitted by law.

Merchandise cannot be returned for credit without our prior
approval and only in accordance with our Parts Return Policy. A
copy of the policy is available upon request.



PAY THIS AMOUNT	CONT'D
AMOUNT	CREDIT



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MN10503	09-29-20	3710400		28	W	BKM	2	2
	DOC. DATE	PC	LC	MC	SHIP VIA			
MN10503	08-26-20	10	10	10	INV SEQ NO.			
MAKE	MODEL	SERIAL NUMBER	EQUIPMENT NUMBER	METER READING	MACHINE ID NO.			
AA	D6R XWVPAT	*CAT00D6RJHDC00219*	DZ48	7182.0	26W58113	EXTENSION		
QUANTITY	ITEM	N/R	DESCRIPTION	UNIT PRICE				

* * * * * PROFORMA INVOICE * * * * *

PRESSURE GAUGES AND WATCHING PRESSURES. WHEN RUNNING IN FIRST AND SECOND GEAR FORWARD AND REVERSE MACHINE WILL NOT MOVE BUT WHEN IN THIRD GEAR MACHINE MOVES. FOUND THE NUMBER 3 CLUTCH IS GETTING PRESSURE WHEN IT SHOULDNT. CHECKING FOR POWER AT CLUTCH 3 SOLENOID AND IS NOT GETTING POWER WHEN IN THAT GEAR. FLUID IS BYPASSING SOLENOID VALVE AND ACTIVATING CLUTCH. SWAPPING SOLENOID VALVES AND CAN GET VALVE TO TRANSFER CLUTCHES. ORDERING NEW SOLENOID MODULATION VALVE. INSTALLING NEW VALVE AND RUNNING. MACHINE IS STILL NOT ABLE TO MOVE INTO FIRST AND SECOND GEAR. CLUTCH NUMBER 3 IS NOT GETTING PRESSURE WHEN RUNNING IN WHAT ITS SUPPOSE TO BE. CHECKING CLUTCH PACK AND FOUND THE CLUTCH DISK AND PLATES WERE HEATED UP AND SEIZED TOGETHER ON NUMBER 3. TRANSMISSION NEEDS TO COME OUT FOR REPAIR.

TOTAL PARTS SEG. 01 * 293.09
TOTAL LABOR SEG. 01 * 1975.00
SEGMENT 01 TOTAL 2268.09

1 244-3114 VALVE GP-MDL N 227.20
1 328-3655 ELEMENT AS S 65.89

PAY THIS AMOUNT	CONT'D
CREDIT AMOUNT	



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MN10503	09-29-20	3710400		28	W	BKM	2	3
PSO/WO NO.	DOC. DATE	PC	LC	MC	SHIP VIA			
MN10503	08-26-20	10	10	10				
MAKE	MODEL	SERIAL NUMBER	EQUIPMENT NUMBER	METER READING	MACHINE ID NO.			
AA	D6R XWPAT	*CAT00D6RJHDC00219*	DZ48	7182.0	26W58113			
QUANTITY	ITEM	N/R	DESCRIPTION	UNIT PRICE	EXTENSION			

* * * * * PROFORMA INVOICE * * * * *

TRAVEL TO/FROM MACHINE

TOTAL LABOR SEG. 99 444.50 *
MILEAGE - WA 216.00
TOTAL MISC CHGS SEG. 99 820.80 *
SEGMENT 99 TOTAL 1265.30 T

TOTAL PARTS DISCOUNT 16.47

EVERETT TAX 346.27 T

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PAY THIS AMOUNT	3879.66
AMOUNT CREDIT	





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3757

INVOICE NUMBER	INVOICE DATE	CUSTOMER NUMBER	CUSTOMER ORDER NUMBER	STORE	DIV	SALESMAN	TERMS	PAGE
S111537	11-02-20	3710400		21	M	BKM	2	1
PSO/NO.	DOC. DATE	PC	LC	MC	SHIP VIA			
S111537	10-01-20	10	10	10				
MAKE	MODEL	SERIAL NUMBER	EQUIPMENT NUMBER	METER READING	MACHINE ID NO.			
AA	D6R XWVPAT	*CAT00D6RJHDC00219*	DZ48		26W58113			
QUANTITY	ITEM	N/R	DESCRIPTION	UNIT PRICE	EXTENSION			
1	AA		D6R XWVPAT		26W58113			

* * * * * PROFORMA INVOICE * * * * *

TEAR DOWN AND INSPECT TRANSMISSION - QUOTE REPAIRS

DISASSEMBLE GENERAL INSPECTION TRANSMISSION

CUSTOMER CONCERN #1536 KEVIN I RECEIVED TRANNY WITHOUT THE BEVEL AND DIFF ATTACHED. I JUST GOT THE PLANETARYS AND VALVES IN THE CASE. IT WAS OBVIOUS IT HAD A FAILURE IN SECOND GEAR CLUTCH AND HAD ALOT OF DEBRIS THROUGHOUT. I TORE DOWN PLANETARYS AND FOUND THE BAD CLUTCH AND THE PISTON WAS BAD AS WELL AS THE PLATES AND FRICTION DISCS WERE STUCK ON THE RING GEAR AND I HAD TO CUT THEM OFF TO SEE IF I COULD SAVE THE RING GEAR AND I COULDNT IT WAS NOTCHED FROM FAILURE AND NEEDED REPLACED. THE REST WAS SHOWING WEAR ON FRICTION DISCS FROM DEBRIS AND ALL NEEDED REPLACED. ALL SOLENOIDS NEEDED REPLACED AS WELL AS THE WIRE HARNESS WAS A LITTLE BRITTLE. #1536 KEVIN I RESEALED AND REBEARING COMPLETE PLANETARYS AND I REPLACED ALL FRICTION DISCS THROUGHOUT AND REPLACED BAD PISTON AND PLATES IN THE BAD CLUTCH AS WELL AS THE SOLENOIDS AND WIRE HARNESS AND THE TEMP SENDER AND I TORQUED ALL BOLTS TO SPEC AND AIR CHECKED CLUTCHS ALL LOOKED GOOD. I WENT THROUGH VALVES AND POLISHED UP SPOOL AND WASHED OUT ALL DEBRIS. I WRAPPED UP CASE AND

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PAY THIS AMOUNT	AMOUNT CREDIT
CONT'D	





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PSO/NO.	DOC. DATE	PC	LC	MC	SHIP VIA			
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AA	D6R XWPAT	*CAT00D6RJHDC00219*	DZ48	26W58113	26W58113			
QUANTITY	ITEM	N/R	DESCRIPTION	UNIT PRICE	EXTENSION			

* * * * * PROFORMA INVOICE * * * * *

PLANETARYS AND SECURED TO PALLET AND SENT ALL
SEALS WITH TRANNY TO MOUNT, CUSTOMER NEEDS TO WASH
OUT CASE AND LINES OF ALL DEBRIS BEFORE RUNNING.

2	2H-3932	S	SEAL	1.75	3.50
6	3S-2093	S	TIE	.20	1.20
6	3S-2708	S	PIN	4.26	25.56
2	3T-4377	S	SEAL RING	5.80	11.60
1	3T-8729	S	BEARING	11.49	11.49
1	4H-5440	N	COVER	58.51	58.51
10	4M-9592	S	SPRING	5.77	57.70
3	5D-2989	S	BEARING A	17.02	51.06
6	5M-6126	S	BEARING A	15.93	95.58
3	5P-3930	S	BEARING	12.89	38.67
1	5P-5045	S	BEARING	152.11	152.11
3	6I-8500	S	PLATE	235.93	707.79
3	7G-2343	S	SPRING	25.60	76.80
3	7T-8816	S	BEARING	66.03	198.09
6	8E-8299	S	DISC	5.35	32.10
12	8E-8304	N	DISC	6.40	76.80
6	8E-8305	S	DISC	6.70	40.20
2	8H-5352	S	BEARING	37.38	74.76
1	8P-2053	S	RING-SEAL	27.46	27.46
1	8P-9507	N	PISTON	617.26	617.26
1	8S-9130	S	SCREEN	15.94	15.94
1	9G-6744	S	BEARING	11.50	11.50
8	9P-7390	S	DISC A	144.60	1156.80
1	9P-8614	S	GEAR	524.00	524.00

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PAY THIS AMOUNT	CONT D
AMOUNT CREDIT	

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QUANTITY	ITEM	N/R	DESCRIPTION	UNIT PRICE	EXTENSION			

* * * * * PROFORMA INVOICE * * * * *

QUANTITY	ITEM	N/R	DESCRIPTION	UNIT PRICE	EXTENSION
27	9X-2125	S	BOLT	74	19.98
1	061-6711	S	RING	5.50	5.50
3	112-4511	S	SPRING	1.05	3.15
1	131-4091	S	SEAL-RING	28.31	28.31
1	145-7028	S	SENSOR GP	75.60	75.60
1	191-8304	S	SENSOR G-SPD	139.14	139.14
1	191-8305	S	SENSOR GP	139.14	139.14
5	244-3114	S	VALVE GP-MDL	227.20	1136.00
1	263-4081	S	HARNASS AS	361.14	361.14
5	328-4374	S	DISC-FRICTIO	86.30	431.50
4	328-4375	S	DISC-FRICTIO	43.43	173.72
1	384-0405	N	KIT-DT GASKE	1067.91	1067.91

TOTAL PARTS 7647.57 *
F/R LBR 5780.00 *
SEGMENT 01 TOTAL 13427.57 T

TUKWILA TAX 1342.76 T

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PAY THIS AMOUNT	14770.33
CREDIT AMOUNT	