



LubeWatch®

UIN 02B1C96

Diesel Engine

Unit No. DZ-47

Unit:

Make

Model

Serial No.

Site

Compartment:

Name Diesel Engine

Make Caterpillar

Model

Serial No. WWW01079

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

	LEGEND			
Normal	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
09-Sep-22	19-Sep-22	26-Sep-22	40111393534	700811889	7031	Chevron	Delo 400 LE	SAE 15W40			Not Changed	
22-Feb-22	17-Mar-22	21-Mar-22	40111333513	39844050	6795	Chevron	Delo 400 LE	SAE 15W40			Changed	
13-Jul-21	28-Jul-21	03-Aug-21	40111256726	39023163	6517	Chevron	Delo 400 LE	SAE 15W40			Not Changed	
28-Jan-21	04-Feb-21	05-Feb-21	40111197762	38402946	6259	Chevron	Delo 400 LE	SAE 15W40			Changed	
20-Jan-20	28-Jan-20	30-Jan-20	40111071322	36383700	5999	Chevron	Delo 400 LE	SAE 15W40			Not Changed	
24-Jan-19	19-Mar-19	03-Apr-19	40110965567	34569303	5769	Chevron	Delo 400 LE	SAE 15W40			Changed	

Metals (ppm)	40111393534	40111333513	40111256726	40111197762	40111071322	40110965567
Iron (Fe)	28	45	24	47	20	36
Chromium (Cr)	<1	<1	<1	<1	<1	<1
Lead (Pb)	<1	<1	<1	<1	<1	<1
Copper (Cu)	63	100	46	135	49	247
Tin (Sn)	<1	<1	7	15	3	27
Aluminum (Al)	3	3	2	6	3	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	2	<1

Contaminants (ppm)	40111393534	40111333513	40111256726	40111197762	40111071322	40110965567
Silicon (Si)	7	5	5	8	4	8
Sodium (Na)	3	4	2	3	2	3
Potassium (K)	2	5	4	2	2	3

Additives (ppm)	40111393534	40111333513	40111256726	40111197762	40111071322	40110965567
Magnesium (Mg)	724	728	703	497	416	512
Calcium (Ca)	1534	1599	1439	1668	1542	1671
Barium (Ba)	<1	<1	<1	<1	<1	<1
Phosphorus (P)	842	807	744	997	1006	973
Zinc (Zn)	1019	993	873	1259	1212	1238
Molybdenum (Mo)	37	31	13	90	95	104
Boron (B)	156	106	103	364	470	392

Contaminants	40111393534	40111333513	40111256726	40111197762	40111071322	40110965567
Water (%)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Coalant	No	No	No	No	No	No

Physical Tests	40111393534	40111333513	40111256726	40111197762	40111071322	40110965567
Viscosity (cSt 100C)	12.7	12.3	12.5	12.9	12.9	12.9
Fuel (%)	1.50	3.00	<1.0	3.90	1	<1
Soot (%) Infrared	0.5	0.7	0.5	0.8	0.4	0.6

Physical / Chemical	40111393534	40111333513	40111256726	40111197762	40111071322	40110965567
Base Number (mgKOH/g)	4.8	4.4	4.0	4.2	4.6	4.0
Oxidation (Abs/0.1mm)	14	15	14	18	17	16
E2412/D7414	9	10	9	10		
Nitration (Abs/0.1mm) E2412						



LUBE CHECKLIST

250 HOUR PREVENTIVE MAINTENANCE CHECKLIST

EQUIPMENT # DZ47	JOB # 098	W.O. #
MODEL	SERIAL NO.	HOUR METER READING 7031
OTHER	LOCATION Riverfront	
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? NO FRONT / REAR	ENGINE OIL SAMPLE TAKEN? yes FRONT / REAR	FUEL FILTER CHANGED & SCREEN CLEANED? NO
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FLUID LEVELS CHECKED

1 <input checked="" type="checkbox"/> ENGINE F R	5 REAR DIFF	9 DRIVE DR	13 SWING DR
2 <input checked="" type="checkbox"/> TRANS F R	6 <input checked="" type="checkbox"/> FINALS RF/LF	10 SPEED REDUCER	14 <input checked="" type="checkbox"/> COOLANT <u> </u> F°
3 <input checked="" type="checkbox"/> HYDRAULIC	7 FINALS RR/LR	11 SPINDEL L R	
4 FRONT DIFF.	8 TANDEM G RL	12 STEERING	

OTHERS:

CHECKED

16 <input checked="" type="checkbox"/> AIR FILTERS	23 <input checked="" type="checkbox"/> PARKING BRAKE	30 TURN SIGNALS	37 <input checked="" type="checkbox"/> EXPOSED WIRING
17 <input checked="" type="checkbox"/> BATTERIES	24 INHIBITOR	31 <input checked="" type="checkbox"/> FAN BELTS	38 <input checked="" type="checkbox"/> GRAB IRONS
18 <input checked="" type="checkbox"/> ALTERNATOR	25 AIR TANKS	32 <input checked="" type="checkbox"/> GREASED FITTINGS	39 <input checked="" type="checkbox"/> ROPS/FOPS
19 BRAKE RESERVE	26 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 NOTIFICATION DECAL COMPLETED
21 <input checked="" type="checkbox"/> HORN	28 <input checked="" type="checkbox"/> PRE-CLEANER	35 <input checked="" type="checkbox"/> BACK ALARM	
22 ROTATING BEACON	29 <input checked="" type="checkbox"/> CAPS, COVERS	36 <input checked="" type="checkbox"/> 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

Cs McJ
SERVICEMAN SIGNATURE

9-9-22
DATE



"An Equal Opportunity/Affirmative Action Employer"

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LUBE CHECKLIST

500 HOUR PREVENTIVE MAINTENANCE CHECKLIST

EQUIPMENT #	DZ-47	JOB #	102	W.O. #	
MODEL		SERIAL NO.		HOUR METER READING	6795 Hrs
OTHER		LOCATION			
TYPE OF SERVICE	<input checked="" type="checkbox"/> 500 HR	<input type="checkbox"/> 1500 HR			

FLUID / FILTERS CHANGED

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

OIL SAMPLES TAKEN AND FLUID LEVELS CHECKED

7 <input checked="" type="checkbox"/> ENGINE F R	11 <input type="checkbox"/> REAR DIFF.	15 <input type="checkbox"/> GIRCLE-DR.	19 <input type="checkbox"/> SWING-DR.
8 <input type="checkbox"/> TRANS F R	12 <input type="checkbox"/> FINALS R/F/LF	16 <input checked="" type="checkbox"/> SPEED REDUCER	20 <input checked="" type="checkbox"/> COOLANT _____ F°
9 <input checked="" type="checkbox"/> HYDRAULIC	13 <input checked="" type="checkbox"/> FINALS RR/LR	17 <input type="checkbox"/> SPINDLE L R	
10 <input type="checkbox"/> FRONT DIFF.	14 <input type="checkbox"/> TANDEM S R L	18 <input type="checkbox"/> STEERING	

OTHERS:

CHECKED

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

OTHER:

WALK AROUND VISUAL INSPECTION

COMMENTS/RECOMMENDATIONS: FW-2326, 299-8229, 308-7298, 293-4053,
sample etc

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

SERVICEMAN SIGNATURE *[Signature]*

DATE 2-22-22



"An Equal Opportunity/Affirmative Action Employer"

[Handwritten mark]

LUBE CHECKLIST

250 HOUR PREVENTIVE MAINTENANCE CHECKLIST

EQUIPMENT # <i>DZ-47</i>	JOB # <i>075</i>	W.O. #
MODEL	SERIAL NO.	HOUR METER READING <i>10517 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 <input checked="" type="checkbox"/> ENGINE F R	5 <input type="checkbox"/> REAR DIFF.	9 <input type="checkbox"/> CIRCLE DR.	13 <input type="checkbox"/> SWING DR.
2 <input checked="" type="checkbox"/> TRANS F R	6 <input type="checkbox"/> FINALS RR/LF	10 <input checked="" type="checkbox"/> SPEED REDUCER	14 <input checked="" type="checkbox"/> COOLANT _____ F°
3 <input checked="" type="checkbox"/> HYDRAULIC	7 <input checked="" type="checkbox"/> FINALS RR/LR	11 <input type="checkbox"/> SPINDEL L R	
4 <input type="checkbox"/> FRONT DIFF.	8 <input type="checkbox"/> TANDEMS R L	12 <input type="checkbox"/> STEERING	

OTHERS:

CHECKED

16 <input checked="" type="checkbox"/> AIR FILTERS	23 <input checked="" type="checkbox"/> PARKING BRAKE	30 <input type="checkbox"/> TURN SIGNALS	37 <input checked="" type="checkbox"/> EXPOSED WIRING
17 <input checked="" type="checkbox"/> BATTERIES	24 <input 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 type="checkbox"/> AIR TANKS	32 <input checked="" type="checkbox"/> GREASED FITTINGS	39 <input checked="" type="checkbox"/> ROPS/FOPS
19 <input type="checkbox"/> BRAKE RESERVE	26 <input 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 type="checkbox"/> SERVICE INTERVAL NOTIFICATION DECAL COMPLETED
21 <input checked="" type="checkbox"/> HORN	28 <input checked="" type="checkbox"/> PRE-CLEANER	35 <input checked="" type="checkbox"/> BACK ALARM	
22 <input type="checkbox"/> ROTATING BEACON	29 <input checked="" type="checkbox"/> CAPS, COVERS	36 <input type="checkbox"/> BRAKE LIGHTS	

OTHER:

WALK AROUND VISUAL INSPECTION

COMMENTS/RECOMMENDATIONS: *sample sheet*

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

SERVICEMAN SIGNATURE *[Signature]*

DATE *7-13-21*



"An Equal Opportunity/Affirmative Action Employer"

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LUBE CHECKLIST

1000/2000 HOUR PREVENTIVE MAINTENANCE CHECKLIST

EQUIPMENT # D247	JOB # 004	W.O. #
MODEL	SERIAL NO.	HOUR METER READING 6259
OTHER	LOCATION E340	
TYPE OF SERVICE <input type="checkbox"/> 1000 HR <input checked="" type="checkbox"/> 2000 HR		

FLUID / FILTERS CHANGED

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

OIL SAMPLES TAKEN AND FLUID LEVELS CHECKED

- | | | | |
|---|---|---|---|
| 14 <input checked="" type="checkbox"/> ENGINE F R | 18 <input type="checkbox"/> REAR DIFF | 22 <input type="checkbox"/> CIRCLE DR. | 26 <input type="checkbox"/> SWING DR. |
| 15 <input checked="" type="checkbox"/> TRANS F R | 19 <input checked="" type="checkbox"/> FINALS RF/LF | 23 <input type="checkbox"/> SPEED REDUCER | 27 <input checked="" type="checkbox"/> COOLANT _____ F° |
| 16 <input checked="" type="checkbox"/> HYDRAULIC | 20 <input type="checkbox"/> FINALS RR/LR | 24 <input type="checkbox"/> SPINDLE L R | |
| 17 <input type="checkbox"/> FRONT DIFF. | 21 <input type="checkbox"/> TANDEM R L | 25 <input type="checkbox"/> STEERING | |

OTHERS:

CHECKED

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

1-28-21
DATE



"An Equal Opportunity/Affirmative Action Employer"

[Signature]



LUBE CHECKLIST

250 HOUR PREVENTIVE MAINTENANCE CHECKLIST

EQUIPMENT # D247		JOB # 060	W.O. #
MODEL	SERIAL NO.		HOUR METER READING 5999
OTHER		LOCATION Delta	
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? NO FRONT / REAR	ENGINE OIL SAMPLE TAKEN? yes FRONT / REAR	FUEL FILTER CHANGED & SCREEN CLEANED? No
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FLUID LEVELS CHECKED

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

OTHERS:

CHECKED

16 <input checked="" type="checkbox"/> AIR FILTERS	23 <input checked="" type="checkbox"/> PARKING BRAKE	30 <input type="checkbox"/> TURN SIGNALS	37 <input checked="" type="checkbox"/> EXPOSED WIRING
17 <input checked="" type="checkbox"/> BATTERIES	24 <input 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 type="checkbox"/> AIR TANKS	32 <input checked="" type="checkbox"/> GREASED FITTINGS	39 <input checked="" type="checkbox"/> ROPS/FOPS
19 <input type="checkbox"/> BRAKE RESERVE	26 <input 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 type="checkbox"/> FIRE EX CHG.	41 <input checked="" type="checkbox"/> SERVICE INTERVAL NOTIFICATION DECAL COMPLETED
21 <input checked="" type="checkbox"/> HORN	28 <input checked="" type="checkbox"/> PRE-CLEANER	35 <input checked="" type="checkbox"/> BACK ALARM	
22 <input type="checkbox"/> ROTATING BEASON	29 <input type="checkbox"/> CAPS, COVERS	36 <input type="checkbox"/> 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

[Signature]
SERVICEMAN SIGNATURE

1-20-20
DATE



"An Equal Opportunity/Affirmative Action Employer"

[Signature]



LUBE CHECKLIST

500 HOUR PREVENTIVE MAINTENANCE CHECKLIST

EQUIPMENT # DZ-47		JOB # 034	W.O. #
MODEL	SERIAL NO.	HOUR METER READING 5769 Hrs	
OTHER		LOCATION	
TYPE OF SERVICE <input checked="" type="checkbox"/> 500 HR <input type="checkbox"/> 1500 HR			

FLUID / FILTERS CHANGED

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

OIL SAMPLES TAKEN AND FLUID LEVELS CHECKED

7 <input checked="" type="checkbox"/> ENGINE F R	11 <input type="checkbox"/> REAR DIFF	15 <input type="checkbox"/> CIRCLE DR	19 <input type="checkbox"/> SWING DR.
8 <input checked="" type="checkbox"/> TRANS F R	12 <input type="checkbox"/> FINALS RE/LF	16 <input checked="" type="checkbox"/> SPEED REDUCER	20 <input checked="" type="checkbox"/> COOLANT _____ F°
9 <input checked="" type="checkbox"/> HYDRAULIC	13 <input checked="" type="checkbox"/> FINALS RR/LR	17 <input type="checkbox"/> SPINDLE L R	
10 <input type="checkbox"/> FRONT DIFF	14 <input type="checkbox"/> TANDEM R-L	18 <input type="checkbox"/> STEERING	

OTHERS:

CHECKED

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

OTHER:

WALK AROUND VISUAL INSPECTION

COMMENTS/RECOMMENDATIONS: **BT237, 299-8229, 308-7298, AIR**

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

[Signature]

SERVICEMAN SIGNATURE

124-19

DATE



"An Equal Opportunity/Affirmative Action Employer"

Ad

NC MACHINERY



INVOICE

WA - (425) 251-9800
AK - (907) 786-7500

Please Remit To: N C Machinery
PO Box 58201
Tukwila, WA 98138-1201

SOLD TO
KLB CONSTRUCTION
PO BOX 158
MUKILTEO WA 98275-0158

SHIP TO
EQUIPMENT FILE

WAO5A 3316

INVOICE NUMBER	INVOICE DATE	CUSTOMER NUMBER	CUSTOMER ORDER NUMBER	STORE	DIV	SALESMAN	TERMS	PAGE
MN09345	10-18-19	3710400		28	W	BKM	2	1
PSO/WO NO.	DOC. DATE	PC	LC	MC	SHIP VIA			INV SEQ NO.
MN09345	08-08-19	10	10	10				1
MAKE	MODEL	SERIAL NUMBER			EQUIPMENT NUMBER	METER READING	MACHINE ID NO.	
AA	D5K XLCN	*CAT00D5KAWW01079*			DZ47		10W68379	
QUANTITY	ITEM	N/R	DESCRIPTION		UNIT PRICE	EXTENSION		

* * * PROFORMA INVOICE * * *

ORDER UNDERCARRIAGE PARTS, SEA TRACK SHOP TO
ASSEMBLE TRACKS, STAN TO ORDER THEM TODAY (8/8/19)
-- QUOTED BY BROCK.

SUPPLY PARTS UNDERCARRIAGE

1	OU-0000		U/C BUY BACK	S	.02	.02
1	OU-0000		U/C BUY BACK	S	2204.05	2204.05
2	235-2535		LINK AS TRK	N	4221.08	8442.16
280	238-0472		BOLT-TRACK	S	1.61	450.80
280	238-0473		NUT-TRACK	S	.99	277.20
8	254-0227		BOLT TCK MST	N	3.11	24.88
72	277-2238		SHOE TRACK	N	49.88	3591.36
2	318-2486		LINK TCK MST	N	130.06	260.12
TOTAL PARTS					SEG. 01	10842.49 *
SEGMENT 01 TOTAL						10842.49 T

ASSEMBLE TRACK ASSEMBLY

CUSTOMER CONCERN
EMPLOYEE #4227 A NEW ASSEMBLY WAS PERFORMED
ON A D5K FOR KLB CONSTRUCTION. FIRST, THE LINK
ASSEMBLY WAS PLACED ON THE TRACK BENCH BOLT SIDE

This Service is subject to all terms and conditions set forth in the N C Machinery Co. Work Authorization, including LIMITED WARRANTY AND RELEASE and EXCLUSION OF LIABILITIES set forth on that authorization.

TERMS: ALL PARTS AND SERVICE INVOICES ARE DUE THE 10TH OF THE MONTH 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 1/2% per month, which is an annual percentage rate of 18%, or an amount not to exceed the highest rate permitted by law.



PAY THIS AMOUNT ▶	CONT'D
AMOUNT CREDIT ▶	

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.

NC MACHINERY



INVOICE

WA - (425) 251-9800
AK - (907) 786-7500

Please Remit To: **N C Machinery**
PO Box 58201
Tukwila, WA 98138-1201

SOLD TO
KLB CONSTRUCTION
PO BOX 158
MUKILTEO WA 98275-0158

SHIP TO

INVOICE NUMBER	INVOICE DATE	CUSTOMER NUMBER	CUSTOMER ORDER NUMBER			STORE	DIV	SALESMAN	TERMS	PAGE
MN09345	10-18-19	3710400				28	W	BKM	2	2
PSO/WO NO.	DOC. DATE	PC	LC	MC	SHIP VIA			INV SEQ NO.		
MN09345	08-08-19	10	10	10				1		
MAKE	MODEL	SERIAL NUMBER			EQUIPMENT NUMBER	METER READING		MACHINE ID NO.		
AA	D5K XLCN	*CAT00D5KAWW01079*			DZ47			10W68379		
QUANTITY	ITEM	N/R	DESCRIPTION			UNIT PRICE		EXTENSION		

* * * PROFORMA INVOICE * * *

UP TO BE SANDED AND CLEARED OF ANY PAINT AND OR DIRT. NEXT, THE TRACK PADS WERE SANDED ON THE SIDE THAT MEETS THE LINK FOR AN EVEN FIT. THEN, EACH BOLT WAS LUBRICATED AND EVERY HOLE WAS STUFFED AND IMPACTED. FINALLY, EVERY BOLT WAS TORQUED TO SPECIFICATION WITH THE TRACK WRENCH. TRACK ASSEMBLY WAS THEN ROLLED OUT WRAPPED AND TIED UP FOR PICKUP.

F/R ALL 1064.00 *

SEGMENT 02 TOTAL 1064.00 T

MONROE WA TAX 1107.30 T

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PAY THIS AMOUNT	▶	13013.79
AMOUNT CREDIT	▶	

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Incoming / Outgoing Machine Quality Assurance Inspection

Customer: DZ-47 Date: 8-1-19
 Model: 5K XL S/N: 1W1W1079
 W/O #: 7913 Hours: 5888

Authorization # _____
 P O # _____

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

Fluid Checks	In		Comments
	In	Out	
1 Engine Oil:	✓	✓	
2 Engine Coolant:	✓	✓	
3 Transmission:	NA	✓	
4 Hydraulic:	✓	✓	
5 Finals:	✓	✓	
6 Differentials:	NA	✓	
7 Attachment:	NA	✓	
8 Bevel:	NA	✓	
9 Pump Drive:	NA	✓	
10 Swing/Circle:	NA	✓	
11 Swing Grease:	NA	✓	
12 Tandems:	NA	✓	
13 Pivot Shaft:	NA	✓	
14 Fuel:	✓	✓	
15 Service Brakes:	NA	✓	
16 Lubricate Machine:	X	✓	Grease
17 SOS All:	X	✓	last service 5769
18 Batteries:	✓	✓	
19 Recoil Housings:	NA	✓	
20 Transfer Drive:	NA	✓	
21 Feeder Planetaries:	NA	✓	

Visual Checks	In		Comments
	In	Out	
22 Leaks	✓	✓	
23 Loose Hrdwr	X	✓	Belly pans present
24 Undercarriage	✓	✓	tracks
25 Attachments	✓	✓	Remove old...
26 Under Guards	X	✓	loose mounting bolts
27 Air/Pre Cleaners	✓	✓	
28 Cab/Glass/Clean?	✓	✓	
29 Latches	X	✓	engine door
30 Rails/Steps	✓	✓	
31 Tires/Press	NA	✓	
32 Seat/Belt	X	✓	seat bottom

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

Repair Recommendation:
 (continued on back)

Incoming Inspector: Neal

Outgoing Inspector: Neal

KLB Construction

Work Order # 7913	Date 8-1-19	Job #
Hours 5888	Mileage	Equipment # DZ- 47 47
Location <u>Shop-Tracks. Machine Inspection.</u>		
Written by <u>Neal</u>		
Repairs Made <u>Replaced tracks Replaced missing track frame, idler,</u> <u>sprocket, roller guards. Replaced seat bottom. Replaced</u> <u>speed control rocker. Adjusted direction control joystick.</u> <u>Replaced f-frame pins and bushings. Adjusted</u> <u>engine door latch/striker. Greased fittings. Sharpened</u> <u>blade center joint Re-connected ground strap.</u> <u>Tightened hydraulic suction hose</u>		
Date Completed 9-10-19	Mechanic Neal	Mech. ID #