

137

Hitachi

EX 400LC-3 EXCAVATOR

166-5119

Equip. No.

Make

Model

Type

Serial Number

Air Filter

Fuel Filter

Hydr. Filter

Oil Filter

Trans. Filter

PA 1885 outer

BF 7633

PT 8478

B 7019

PA 1893 inner

BT 260-10

4500485

2- Blade or Bucket Number

Hydr. System Number

Ripper or Winch Number

Side Ext - 4T 2386

8 Bolts - 3/4 x 3/4 + Nut & Wash.

Teeth

Part Number on

6-9W 8452

3-9W 8552

Bucket Teeth

Teeth or Lock No.

REMARKS

Date

Description

Hour Reading

8/2005

13148

10/22/05 Changed Eng oil & Filter (addal anti-freeze)

13459

11/2/06 Changed Eng oil & Filter (took oil sample) Fuel Filter

13703

3/4/06 Changed Eng oil & Filter

13969

6-23-06 Rebuild ENGINE Replace Seal in Pump

Drive INSTALL new Rails Sprockets &

Idlers on new New Bottom Roller

14257

8/29/06 Changed Eng oil & Filters - air -

14575

10/23/06 Changed Eng oil & Filter - air - Fuel

14891

1-29-07 Repair injector Pump.

15207

2/3/07 Changed Eng oil & Filter Hyd Filter

15207

3/31/07 Changed Eng oil & Filter Fuel Filter

15494

9-2-14 Repair Hyd Cooler.

OIL CHANGE CHECK-OFF LIST

Equip #	137					Date	5-9-14		
Hours	16741					Job #			
	Sample Taken Y Or N	Changed Y Or N	Fluid Amount	Filter #	Front	Rear	Left	Right	
ENGINE				B709					
FUEL FILTERS				BF7637					
AIR FILTER				PA1885					
HYDRAULIC		OK		PA1893					
TRANSMISSION									
TIRE ROTATE									
PLANETARIES									
PUMP DRIVE									
SWING DRIVE									
TANDEM DRIVE									
FINAL DRIVES									
DRIVELINE									
BRAKE									
FAN BELTS		OK							
BATTERIES		OK							
COOLANT		OK							
RADIATOR									
DIFFERENTIALS									
OTHER									
					OILER:				

Shof

OIL CHANGE CHECK-OFF LIST

Equip # 137 Date 10/23/08
Hours 15950 Job # 2944 Seminole

	Sample Taken Y Or N	Changed Y Or N	Fluid Amount	Filter #	Front	Rear	Left	Right
ENGINE		yes	✓	✓				
FUEL FILTERS								
AIR FILTER								
HYDRAULIC								
TRANSMISSION								
TIRE ROTATE								
PLANETARIES								
PUMP DRIVE								
SWING DRIVE								
TANDEM DRIVE								
FINAL DRIVES								
DRIVELINE								
BRAKE								
FAN BELTS								
BATTERIES								
COOLANT								
RADIATOR								
DIFFERENTIALS								
OTHER								

OILER: Bob La

Shop

OIL CHANGE CHECK-OFF LIST

Equip #	137				Date	3/30/07		
Hours	15494				Job #	Field House		
	Sample Taken Y Or N	Changed Y Or N	Fluid Amount	Filter #	Front	Rear	Left	Right
ENGINE		yes		B7019				
FUEL FILTERS		yes		B77633				
AIR FILTER		OK						
HYDRAULIC		OK						
TRANSMISSION								
DIFFERENTIALS								
PLANETARIES								
PUMP DRIVE								
SWING DRIVE								
TANDEM DRIVE								
FINAL DRIVES		OK						
DRIVELINE								
BRAKE								
FAN BELTS		OK						
BATTERIES		OK						
COOLANT		OK						
RADIATOR		OK						
OTHER								
					OILER:	Willie		

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Shop

OIL CHANGE CHECK-OFF LIST

Equip # 137						Date 2/3/07		
Hours 15207						Job # Field Stone (Down)		
	Sample Taken Y Or N	Changed Y Or N	Fluid Amount	Filter #	Front	Rear	Left	Right
ENGINE		yes		B 7019				
FUEL FILTERS		ok						
AIR FILTER								
HYDRAULIC		yes		B260-10 PT 8478				
TRANSMISSION								
DIFFERENTIALS								
PLANETARIES		ok						
PUMP DRIVE								
SWING DRIVE								
TANDEM DRIVE								
FINAL DRIVES								
DRIVELINE								
BRAKE								
FAN BELTS		ok						
BATTERIES		ok						
COOLANT		ok						
RADIATOR		ok						
OTHER								
					OILER: Willie			

Shop

OIL CHANGE CHECK-OFF LIST								
Equip # <u>137</u>					Date <u>10/23/06</u>			
Hours <u>14891</u>					Job # <u>U42: B / Bella House (2926)</u>			
	Sample Taken Y Or N	Changed Y Or N	Fluid Amount	Filter #	Front	Rear	Left	Right
ENGINE		<u>YES</u>		<u>B7019</u>				
FUEL FILTERS		<u>YES</u>		<u>BF1833</u>				
AIR FILTER		<u>YES</u>		<u>PA1885</u>				
HYDRAULIC		<u>OK</u>						
TRANSMISSION								
DIFFERENTIALS								
PLANETARIES								
PUMP DRIVE								
SWING DRIVE		<u>OK</u>						
TANDEM DRIVE								
FINAL DRIVES								
DRIVELINE								
BRAKE								
FAN BELTS		<u>OK</u>						
BATTERIES		<u>OK</u>						
COOLANT		<u>OK</u>						
RADIATOR		<u>OK</u>						
OTHER								
					OILER: <u>Willie</u>			

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Shop

OIL CHANGE CHECK-OFF LIST

Equip # 137
Hours 14575

Date 8/29/04
Job # So Wind (Dors Ton)

	Sample Taken Y Or N	Changed Y Or N	Fluid Amount	Filter #	Front	Rear	Left	Right
ENGINE		YES		B7019 4500485				
FUEL FILTERS		OK						
AIR FILTER		YES		PA1885				
HYDRAULIC		OK		0				
TRANSMISSION								
DIFFERENTIALS								
PLANETARIES								
PUMP DRIVE								
SWING DRIVE		OK						
TANDEM DRIVE								
FINAL DRIVES		OK						
DRIVELINE								
BRAKE								
FAN BELTS		OK						
BATTERIES		OK						
COOLANT		OK						
RADIATOR		OK						
OTHER								

OILER: W/KC

Shop *Mak* Copies

OIL CHANGE CHECK-OFF LIST

Equip # 137					Date 3/4/06			
Hours 3969					Job # 2025.			
<i>Oil + hydraulic</i> at 4219 hrs	Sample Taken Y Or N	Changed Y Or N	Fluid Amount	Filter #	Front	Rear	Left	Right
ENGINE		Yes	14 Gal.	B7019				
FUEL FILTERS		OK						
AIR FILTER		OK						
HYDRAULIC		OK						
TRANSMISSION								
DIFFERENTIALS								
PLANETARIES		OK						
PUMP DRIVE								
SWING DRIVE		OK						
TANDEM DRIVE								
FINAL DRIVES		OK					OK	OK
DRIVELINE								
BRAKE								
FAN BELTS		OK						
BATTERIES		OK						
COOLANT		OK						
RADIATOR		OK						
OTHER								
					OILER:			

DON OLSON CONST.
MARVIN
3302 A ST
AUBURN WA 98002

FAX: 253-735-0968
 PHONE: 253-939-9846

SAMPLE TYPE: OIL

COMPANY NAME: DON OLSON CONSTRUCTION
 CUSTOMER EQUIP NUM: 137
 COMPARTMENT NAME: ENGINE
 SERIAL NUMBER: 186-6119
 MANUFACTURER: HITACHI
 MODEL: EX400 HITACHI
 JOB SITE:
 EXT WARR NUMBER:
 SHEP JOB NUM:
 CUSTOMER TO NUM:
 COMP SERIAL NUM:
 COMPARTMENT MODEL:
 COMP MANUFACTURER:
 SAMPLE LABEL NUM: 1178
 FLUID BRAND/WEIGHT: MOBIL 15W-40
 EXT WARR EXPIRE DATE:



SOS Services Laboratory
 17036 West Valley Highway
 Tukwila, WA 98124-3562
 800-662-4736

LAB CONTROL NUMBER	SAMPLE DATE	PROCESS DATE	EQUIPMENT METER	METER OR FLUID	FLUID CHANGED	MAKE UP FLUID	MAKE UP FLUID UNITS	FILTERS CHANGED
H330-36016-1178	1/12/05	1/16/06	13703 HR	250 HR	No			No
Monitor Compartment MAGNESIUM AND MOLYBDENUM COMPOUNDS ARE COMMONLY USED AS OIL ADDITIVES. VALUES OF THESE METALS CAN VARY WITH EACH BATCH OF NEW OIL AND USUALLY DO NOT INDICATE ANY WEAR. THIS SAMPLE TESTED POSITIVE FOR GLYCOL, WHICH MAY BE AN ADDITIVE OR SIGN'S FOR COOLANT. NORMAL WEAR METAL READINGS. RESAMPLE IN 250 HOURS OR 3 MONTHS, WHICHEVER IS FIRST, TO MONITOR								
H330-35230-1118	9/16/05	9/18/05	13448 HR	13148 HR	Unknown			Unknown
SODIUM, AND POTASSIUM LEVELS APPEAR HIGHER THAN NORMAL. THESE ARE COOLANT INDICATORS. WATCH YOUR COOLANT SYSTEM FOR OTHER INDICATORS (WHITE SMOKE, LEAKS, OIL ON THE COOLANT, EXCESSIVE BLOW-BY WATER IN THE DIP STICK TUBE, ETC. THIS SAMPLE TESTED POSITIVE FOR GLYCOL, WHICH MAY BE AN ADDITIVE OR SIGN'S FOR COOLANT. RESAMPLE IN 90 HOURS OR 3 MONTHS, WHICHEVER IS FIRST, TO MONITOR CARRY-OVER FROM A RECENT REPAIR. FULLY DRAIN & REFILL COMPARTMENT WITH APPROVED LUBRICANT. RESAMPLE IN 90 HOURS OR 3 MONTHS, WHICHEVER IS FIRST, TO MONITOR								

Action Required

Wear Metals (ppm)	Al	Ba	B	Cd	Ca	Cr	Cu	Fe	Pb	Mg	Mn	Mo	Ni	P	K	Sr	Au	Na	Sn	Ti	V	Zn
H330-36016-1178	1	0	48	0	2631	2	2	9	1	503	0	69	0	1277	31	3	0	29	2	0	0	1434
H330-35230-1118	3	2	112	0	2777	1	2	6	1	6	0	218	0	1122	130	6	0	61	0	0	0	1210

Oil Constituents Palmitic Count (ppm)	ST	OXI	NIT	SUL	W	A	F	W100
H330-36016-1178	14	44	36	43	N	E	N	17.0
H330-35230-1118	12	34	21	29	N	P	N	14.9

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cr = Chromium, Cu = Copper, Fe = Iron, P = Phosphorus, K = Potassium, Mn = Manganese, Mo = Molybdenum, Na = Sodium, Ni = Nickel, Pb = Lead, Si = Silicon, Sn = Tin, V = Vanadium, Zn = Zinc, A = Antifreeze, F = Fuel, W = Water, P = Positive, N = Negative, E = Excessive, OXI = Oxidation, ST = Soot, SUL = Sulfation, ISO = ISO Rating, POI = Petrochem Quantifying Index, NBN = Salt Water, FL = Fuel, TAN = Total Acid Number, TBN = Total Base Number, W40 = Viscosity@40C
 Notice: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or a component thereof.

OIL CHANGE CHECK-OFF LIST

EQUIP #137

DATE 1/12/04

JOB# _____

HOURS 13703

LOCATION _____

MILEAGE _____

	SAMPLE	CHANGED	FLUID TYPE	FILTER#	FRONT REAR		LEFT RIGHT	
	TAKEN (Y or N)				(Y or N)			
<input checked="" type="checkbox"/> ENGINE		Yes		B7019				
<input type="checkbox"/> HYDRAULIC		OK						
<input type="checkbox"/> TRANSMISSION								
<input type="checkbox"/> DIFFERENTIALS		OK						
<input type="checkbox"/> PLANETARIES		Full						
<input type="checkbox"/> PUMP DRIVE								
<input type="checkbox"/> SWING DRIVE		OK						
<input type="checkbox"/> TANDEM DRIVE								
<input type="checkbox"/> FINAL DRIVES		Full					low	low
<input checked="" type="checkbox"/> FUEL FILTERS		Yes		B F 7033			low	low
<input type="checkbox"/> DRIVELINE								
<input type="checkbox"/> BRAKE								
<input type="checkbox"/> FAN BELTS		OK						
<input type="checkbox"/> BATTERIES		OK						
<input type="checkbox"/> COOLANT		OK						
<input type="checkbox"/> BLOW AIR FILTER		OK						
<input type="checkbox"/> BLOW RADIATOR		OK						
<input type="checkbox"/> OTHER								

OILER: Wilke

-5°

DON OLSON CONST.
MARVIN
3302 A ST
AUBURN, WA 98002

FAX: 253-435 0968
 PHONE: 253-939 9646

SAMPLE TYPE: OIL

COMPANY NAME : DON OLSON CONSTRUCTION
 CUSTOMER EQUIP NUM : 166-5119
 COMPARTMENT NAME : ENGINE
 SERIAL NUMBER : 166-5119
 MANUFACTURER : HITACHI
 MODEL : EX400_HITACHI
 JOB SITE :
 EXT WARR NUMBER :
 SHOP JOB NUM :
 CUSTOMER PO NUM :
 COMP SERIAL NUM :
 COMPARTMENT MODEL :
 COMP MANUFACTURER :
 SAMPLE LABEL NUM : 1118
 FLUID BRAND/WEIGHT : CHEVRON/15W-40
 EXT WARR EXPIRE DATE :



SOS Services Laboratory
17035 West Valley Highway
Tukwila, WA 98124-3562
800-562-4735

LAB CONTROL NUMBER	SAMPLE DATE	PROCESS DATE	EQUIPMENT METER	METER ON FLUID	FLUID CHANGED	MAKE UP FLUID	MAKE UP FLUID UNITS	FILTER CHANGED
H330-35230-1118	8/16/05	8/18/05	13148 HR	13148 HR	Unknown			Unknown
<div style="border: 1px solid red; padding: 2px; display: inline-block;">Action Required</div> <p>SODIUM, AND POTASSIUM LEVELS APPEAR HIGHER THAN NORMAL. THESE ARE COOLANT INDICATORS. WATCH YOUR COOLANT SYSTEM FOR OTHER INDICATORS (WHITE SMOKE, LEAKS, OIL ON THE COOLANT, EXCESSIVE BLOW-BY WATER IN THE DIP STICK TUBE, & ETC. THIS SAMPLE TESTED POSITIVE FOR GLYCOL, WHICH MAY BE AN ADDITIVE OR SIGNS FOR COOLANT OR CARRY-OVER FROM A RECENT REPAIR. FULLY DRAIN & REFILL COMPARTMENT WITH APPROVED LUBRICANT. RESAMPLE IN 50 HOURS OR 3 MONTHS, WHICHEVER IS FIRST, TO MONITOR</p>								

Wear Metals (ppm)	Al	Ba	B	Cd	Ca	Cr	Cu	Fe	Pb	Mg	Mn	Mo	Ni	P	K	Si	Ag	Na	Sn	Ti	V	Zn
H330-35230-1118	3	2	112	0	2777	1	2	6	1	6	0	218	0	1122	130	6	0	61	0	0	0	1210

Oil Condition / Particle Count (cf/ml)	ST	OXI	NIT	SUL	W	A	F	V100
H330-35230-1118	12	34	21	29	N	P	N	14.9

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3302 A ST
AUBURN, WA 98002

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cr = Chromium, Cu = Copper, Fe = Iron, P = Phosphorus, K = Potassium, Mg = Magnesium, Mo = Molybdenum, Na = Sodium, Ni = Nickel, Pb = Lead, Si = Silicon, Sn = Tin, V = Vanadium, Zn = Zinc, A = Antifreeze, F = Fuel, W = Water, P = Positive, N = Negative, E = Excessive, NIT = Nitration, OXI = Oxidation, ST = Soot, SUL = Sulfation, ISO = ISO Rating, PQI = Particle Quantifying Index, NAW = Salt Water, FL Pt = Flash Point, TAN = Total Acid Number, TBN = Total Base Number, V100 = Viscosity@100C, V40 = Viscosity@40C
 Notice: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or a component thereof.