

MAJOR PLANT SPECIFIC DETAILS

GENERAL DETAILS:

Company	Wellam Constructions Pty. Ltd.
Plant Identification No.	100 56
Item of Plant / Vehicle	Hitachi ZX 240-3 LC Excavator
Typical Operator / Driver	
Registration / Serial No.	HCM1V100C00026772
Make / Model	Hitachi ZX 240-3 LC Excavator
Typical Service Interval	500 hrs

ENGINE DETAILS:

Engine Type	
Engine No.	

FILTER DETAILS:

Fuel Filter Type	
Oil Filter Type	

COMMENTS:

ENGINE

EQUIP NUM: 100-56

SERIAL NUMBER: HCM1V200K00210360

HITACHI ZX240-3



No Action Required

T010-52223-0115

SAMPLE SHIP TIME (days) : 3

WELLAM CONSTRUCTIONS

PTY LTD

LOCATION: GEELONG

RECEIVED DATE: 11-Aug-22

Interp By: Tom Cokalis

Interpreted On: 22-Aug-22

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

SAMPLE INFORMATION

	08-Aug-22	06-Apr-22	11-Jan-22	08-Jan-21
Sample Id	T010-52223-0115	T010-52103-0548	T010-52019-7904	T010-51013-0137
Lab Date	11-Aug-22	13-Apr-22	19-Jan-22	13-Jan-21
Meter [Hr]	11492	10958	10588	9000
Meter On Fluid	500	370	500	500
Fluid Brand	MOBIL	MOBIL	CALTEX	CALTEX
Fluid Weight	15W-40	15W-40	15W-40	15W-40
Fluid Type			DELO 400 LE	DELO 400 LE
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Make Up Fluid [L]				0

PREVIOUS SAMPLE

NORMAL	WEAR	METAL	READINGS	OTHER	ANALYSIS	READINGS	APPEAR	TO
BE ACCEPTABLE. CONTINUE NORMALLY SCHEDULED SAMPLING.								

For additional sample history, go to: my.cat.com

CONDITION / CONTAMINATION

		08-Aug-22	06-Apr-22	11-Jan-22	08-Jan-21
VISCOSITY (CENTISTOKES) ASTM D445					
V100	Viscosity at 100 C	15.03	14.15	14.78	14.9
VISCOSITY (CENTISTOKES) ASTM D445					
V40	Viscosity at 40 C	115.7	105.8	111.5	113.7

WEAR LEVELS / ADDITIVES

		08-Aug-22	06-Apr-22	11-Jan-22	08-Jan-21
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]					
Cu	Copper	1	1	1	1
Fe	Iron	12	10	8	6
Cr	Chromium	0	0	0	0
Al	Aluminum	4	4	3	3
Pb	Lead	1	0	1	1
Sn	Tin	0	0	0	1
Si	Silicon	4	7	3	2
Na	Sodium	0	4	1	1
K	Potassium	0	1	4	2
Mo	Molybdenum	48	47	81	69
Ni	Nickel	0	0	0	0
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Mn	Manganese	1	1	0	0
Cd	Cadmium	0	0	0	0
Ca	Calcium	1905	1671	1278	1160
P	Phosphorus	798	853	1230	1100
Zn	Zinc	1006	1007	1484	1341
Mg	Magnesium	542	597	1194	1058
Ba	Barium	0	0	0	0
B	Boron	47	41	3	2

VISCOSITY INDEX

VI	Viscosity Index	134	137	137	135
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INFRARED (UFM) ASTM E2412

ST	Soot	65	41	48	48
OXI	Oxidation	22	20	13	12
SUL	Sulfur Products	27	24	19	18
NIT	Nitration	9	7	7	7

WATER - HOTPLATE

W	Water	N	N	N	N
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FUEL DILUTION (SCREEN)

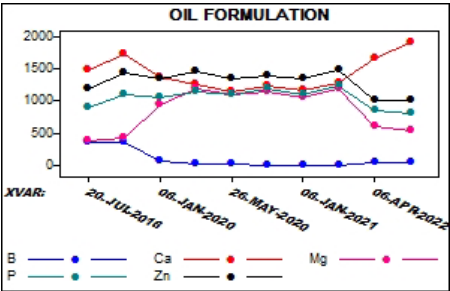
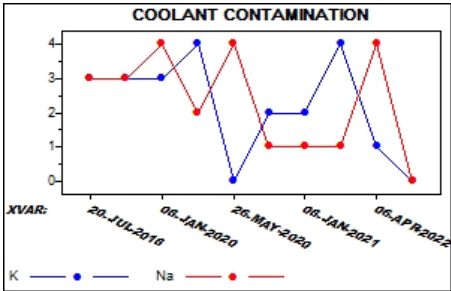
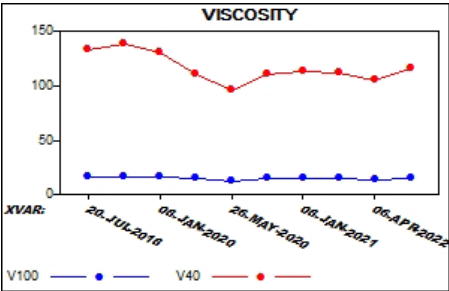
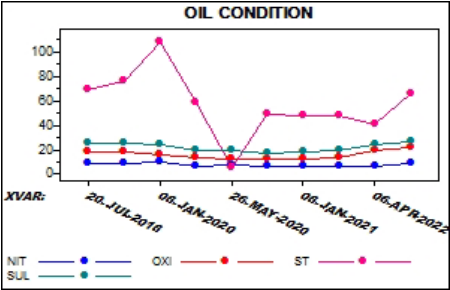
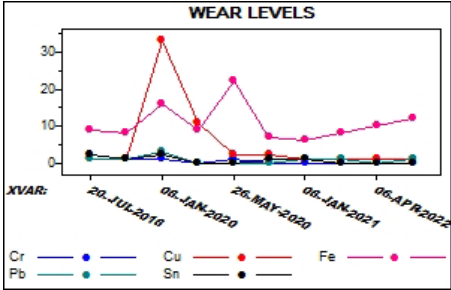
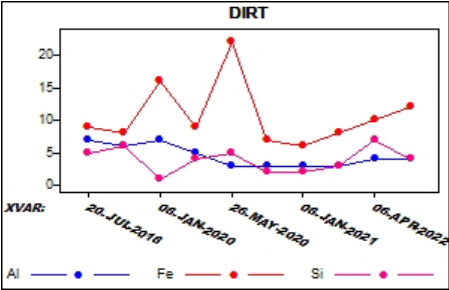
F	Fuel	N	N	N	N
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FUEL DILUTION (%) ASTM D7593

PFC	Percent Fuel	<2	<2	<2	0.80
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CLEANLINESS

		08-Aug-22	06-Apr-22	11-Jan-22	08-Jan-21
FERROUS DEBRIS					
PQI	PQ Index	0	0		6



REPORT COMMENT

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJvUrs>

William Adams



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EQUIPMENT

EQUIP NUM: 100-56
SERIAL NUMBER: 026772
MODEL : 240ZX
MANUFACTURER : HITACHI
COMPANY NAME : WELLAM CONSTRUCTIONS PTY LTD
JOB SITE :
AREA:
REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE
COMP SERIAL NUM:
COMPARTMENT MODEL :
LABEL#:
SHOP JOB NUM :
SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days) : 5
SAMPLE LOCATION :

Interp By: Barry Swindells

No Action Required

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB #

T010-51013-0137

WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	Ba	B
08-Jan-21	T010-51013-0137	9000	500	Y	Y	1	6	0	3	1	1	2	1	2	69	0	0	0	0	0	0	1160	1100	1341	1058	0	2
15-Sep-20	T010-50266-0344	8506	1506	Y	Y	2	7	0	3	0	1	2	1	2	77	0	0	0	0	0	0	1227	1201	1397	1141	0	2
26-May-20	T010-50169-0710	8000	500	Y	Y	2	22	1	3	0	0	5	4	0	74	0	0	0	0	0	0	1136	1107	1344	1106	0	5
28-Apr-20	T010-50148-0917	8034	1523	Y	Y	11	9	0	5	0	0	4	2	4	76	1	0	0	0	0	0	1267	1153	1455	1194	0	7

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	W	F	PFc
08-Jan-21	T010-51013-0137	CALTEX	DELO 400 LE	15W-40	Y	Y	14.9	113.7	135	48	12	18	7	N	N	0.80
15-Sep-20	T010-50266-0344	CALTEX	DELO 400 LE	15W-40	Y	Y	14.5	110.4	134	49	12	17	7	N	N	1.04
26-May-20	T010-50169-0710	CALTEX	DELO 400 LE	15W-40	Y	Y	13.0	96.0	133	5	12	19	8	N	N	1.41
28-Apr-20	T010-50148-0917	CALTEX	DELO 400 LE	15W-40	Y	Y	14.8	111.2	137	58	13	20	7	N	N	0.81

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
08-Jan-21	T010-51013-0137	Y	Y	6
15-Sep-20	T010-50266-0344	Y	Y	5
26-May-20	T010-50169-0710	Y	Y	6
28-Apr-20	T010-50148-0917	Y	Y	5

Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mn = Manganese, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PFC = Percent Fuel Content, PQI = Particle Quantifying index, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

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EQUIPMENT

EQUIP NUM: 100-56
SERIAL NUMBER: 026772
MODEL : 240ZX
MANUFACTURER : HITACHI
COMPANY NAME : WELLAM CONSTRUCTIONS PTY LTD
JOB SITE :
AREA:
REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE
COMP SERIAL NUM:
COMPARTMENT MODEL :
LABEL#:
SHOP JOB NUM :
SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days) : 22
SAMPLE LOCATION : GEELONG

Interp By: Tom Cokalis

Monitor Compartment

IRON IS SLIGHTLY HIGH. CHECK FILTER MEDIUM AND SCREENS FOR WEAR MATERIAL AND CONTAMINATION. ALL OTHER TEST RESULTS APPEAR ACCEPTABLE. WE WILL MONITOR ACTIVITY OVER THE NEXT FEW SAMPLES. CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB #

T010-50169-0710

WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	Ba	B
26-May-20	T010-50169-0710	8000	500	Y	Y	2	22	1	3	0	0	5	4	0	74	0	0	0	0	0	0	1136	1107	1344	1106	0	5
28-Apr-20	T010-50148-0917	8034	1523	Y	Y	11	9	0	5	0	0	4	2	4	76	1	0	0	0	0	0	1267	1153	1455	1194	0	7
11-May-19	T010-49165-0129	6511	377	Y	Y	<1	8	<1	6	<1	<1	6	3	3	97	<1	<1	<1	<1	<1	<1	1729	1097	1445	412		357
20-Jul-18	T010-48208-0124	0	0	U		<1	9	<1	7	<1	2	5	3	3	90	<1	<1	<1	<1	<1	<1	1480	899	1188	384		356

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	W	F	PFc
26-May-20	T010-50169-0710	CALTEX	DELO 400 LE	15W-40	Y	Y	13.0	96.0	133	5	12	19	8	N	N	1.41
28-Apr-20	T010-50148-0917	CALTEX	DELO 400 LE	15W-40	Y	Y	14.8	111.2	137	58	13	20	7	N	N	0.81
11-May-19	T010-49165-0129	CALTEX	ENGINE	15W-40	Y	Y	16.2	137.9	125	76	18	25	9	N	N	
20-Jul-18	T010-48208-0124	CALTEX			U		16.3	132.8	131	69	18	25	9	N	N	

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
26-May-20	T010-50169-0710	Y	Y	6
28-Apr-20	T010-50148-0917	Y	Y	5
11-May-19	T010-49165-0129	Y	Y	2
20-Jul-18	T010-48208-0124	U		0

Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mn = Manganese, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PFC = Percent Fuel Content, PQI = Particle Quantifying index, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

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EQUIPMENT

CUSTOMER EQUIP NUM : 100.56
SERIAL NUMBER : 026772
MODEL : 240ZX
MANUFACTURER : HITACHI
COMPANY NAME : WELLAM CONSTRUCTIONS PTY LTD
JOB SITE :
AREA:
REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE
COMP SERIAL NUM :
COMPARTMENT MODEL :
LABEL#:
SHOP JOB NUM :
SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days) : 23
SAMPLE LOCATION : GEELONG

Interp By: Tom Cokalis

No Action Required

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB #

T010-48106-0517

WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	B
24-Mar-18	T010-48106-0517	6134	634	Y	Y	1	9	<1	5	<1	1	5	3	2	88	<1	<1	<1	<1	<1	<1	1551	953	1241	400	336

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	W	F
24-Mar-18	T010-48106-0517	CALTEX	ENGINE	15W-40	Y	Y	14.8	121.9	124	48	18	24	9	N	N

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
24-Mar-18	T010-48106-0517	Y	Y	1

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mn = Manganese, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PQI = Particle Quantifying index, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

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EQUIPMENT

CUSTOMER EQUIP NUM : 100-56
SERIAL NUMBER : 26772
MODEL : ZX240-3
MANUFACTURER : HITACHI
COMPANY NAME : WELLAM CONSTRUCTIONS PTY LTD
JOB SITE :
AREA:
REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE
COMP SERIAL NUM :
COMPARTMENT MODEL :
LABEL#:
SHOP JOB NUM :
SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days) : 6
SAMPLE LOCATION :

Interp By: Barry Swindells

No Action Required

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB #

T010-48059-0126

WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	B
22-Feb-18	T010-48059-0126	4506	506	Y	Y	<1	9	1	7	<1	2	5	2	4	92	<1	<1	<1	<1	<1	<1	1593	942	1279	392	366
20-Oct-17	T010-47298-0718	4000	500	Y	Y	<1	7	<1	6	2	<1	6	3	4	96	<1	<1	<1	<1	<1	<1	1552	965	1207	395	412
31-Jul-17	T010-47213-0712	3600	600	Y	Y	<1	10	<1	7	1	<1	6	2	5	94	<1	<1	<1	<1	<1	<1	1582	896	1209	408	361

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	W	F
22-Feb-18	T010-48059-0126		DELO	15W-40	Y	Y	15.8	129.6	128	71	18	25	9	N	N
20-Oct-17	T010-47298-0718	CALTEX	DELO	15W-40	Y	Y		122.6		49	17	25	8	N	N
31-Jul-17	T010-47213-0712	CALTEX	DELO 400	15W-40	Y	Y		127.8		70	17	25	9	N	N

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
22-Feb-18	T010-48059-0126	Y	Y	4
20-Oct-17	T010-47298-0718	Y	Y	6
31-Jul-17	T010-47213-0712	Y	Y	7

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mn = Manganese, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PQI = Particle Quantifying index, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

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CONTACT INFORMATION	EQUIPMENT	SAMPLE INFORMATION
NICK CULLEN WELLAM CONSTRUCTIONS PTY LTD PO BOX 417 GEELONG, VIC AUS 3220 PHONE: 352214366 FAX: 352218226 Email: nickcullen@wellam.com.au	CUSTOMER EQUIP NUM : 100-56 SERIAL NUMBER : HCM1V200K00210360 MODEL : ZX240-3 MANUFACTURER : HITACHI COMPANY NAME : WELLAM CONSTRUCTIONS PTY LTD JOB SITE : AREA: REGION:	COMPARTMENT NAME : ENGINE COMP SERIAL NUM : COMPARTMENT MODEL : LABEL#: SHOP JOB NUM : SAMPLE TYPE: OIL SAMPLE SHIP TIME (days) : 5 SAMPLE LOCATION : GEELONG

No Action Required

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB #
T010-46167-0813

WEAR/CONTAMINATION - ADDITIVES/FORMULATION																											
SAMPLE DATE	SAMPLE ID	METER	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	B
10-Jun-2016	T010-46167-0813	1534	500	Y	Y	NAR	1	11	<1	6	<1	<1	7	2	4	87	<1	<1	<1	<1	<1	<1	1485	887	1125	365	363

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION														
SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	V40	ST	OXI	SUL	NIT	W	F
10-Jun-2016	T010-46167-0813		ENGINE OIL	15W-40	Y	Y	NAR	138.9	64	15	25	9	N	N

OIL CLEANLINESS					
SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	PQI
10-Jun-2016	T010-46167-0813	Y	Y	NAR	4

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mn = Manganese, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PQI = Particle Quantifying index , Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V40 = Viscosity@40C, W = Water, Zn = Zinc

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TRANSMISSION

EQUIP NUM: 100-56

SERIAL NUMBER: HCM1V200K00210360

T010-52103-0102
SAMPLE SHIP TIME (days) : 7
WELLAM CONSTRUCTIONS
PTY LTD
RECEIVED DATE: 13-Apr-22

HITACHI ZX240-3
No Action Required

Interp By: Maria Isabel Mata Vargas
Interpreted On: 05-May-22

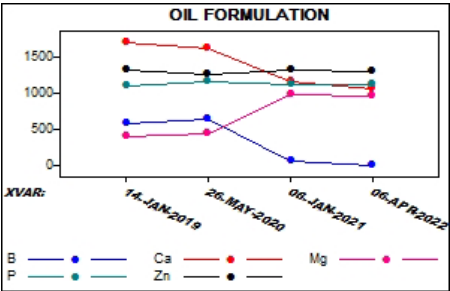
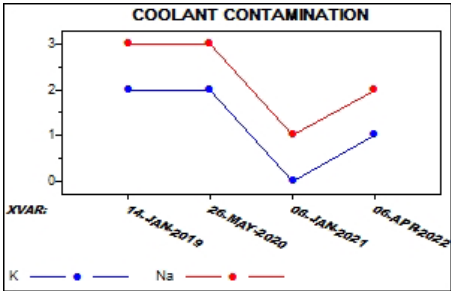
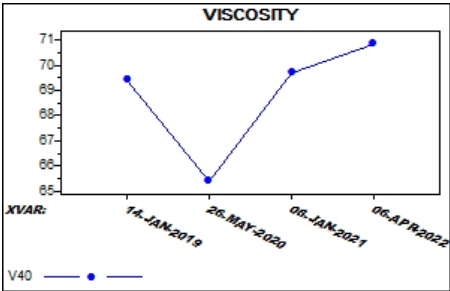
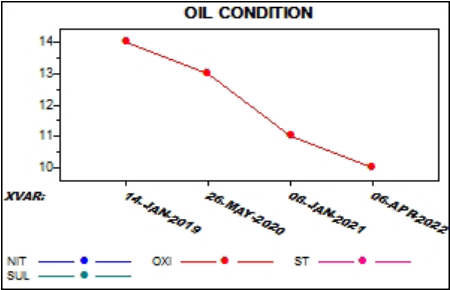
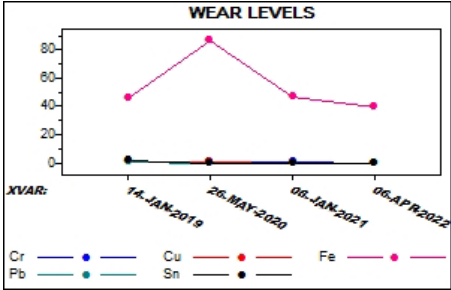
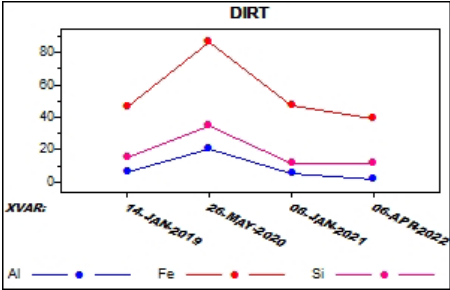
NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING
AT THE NORMAL INTERVAL.

SAMPLE INFORMATION				
Sampled Date	06-Apr-22	08-Jan-21	26-May-20	14-Jan-19
Sample Id	T010-52103-0102	T010-51013-0519	T010-50148-0815	T010-49015-0416
Lab Date	13-Apr-22	13-Jan-21	27-May-20	15-Jan-19
Meter [Hr]	10958	9000	8034	6000
Comp Meter [Hr]				6000
Meter On Fluid	1000	1000	1000	1000
Fluid Brand	MOBIL	CALTEX	CALTEX	CALTEX
Fluid Weight	15W-40	15W-40	15W-40	15W-40
Fluid Type		DELO 400 LE	DELO 400 LE	DELO400
Fluid Change	Y	Y	Y	Y
Filter Change	Y			
Make Up Fluid [L]		0		0

PREVIOUS SAMPLE													
THE REPORTED OIL.	VISCOSITY @ 40C	IS LOWER THAN THE SPECIFICATION FOR THE	MONITOR COMPARTMENT FOR RISING OIL LEVEL.	CHECK FILTER MEDIUM	AND SCREENS FOR WEAR MATERIAL AND CONTAMINATION.	CHECK FOR TRANSMISSION SHIFTING PROBLEMS.	CHECK & ENSURE THIS COMPARTMENT OPERATING CORRECTLY.	AS THE OIL HAS BEEN CHANGED.	WE WILL MONITOR ACTIVITY OVER THE NEXT FEW SAMPLES.	ALL OTHER TEST RESULTS APPEAR ACCEPTABLE.	RESAMPLE AT THE NEXT SERVICE INTERVAL.		
For additional sample history, go to: my.cat.com													
CONDITION / CONTAMINATION													
	06-Apr-22			08-Jan-21			26-May-20			14-Jan-19			
VISCOSITY (CENTISTOKES) ASTM D445													
V40	Viscosity at 40 C			70.83			69.7			65.4			69.4

WEAR LEVELS / ADDITIVES					
		06-Apr-22	08-Jan-21	26-May-20	14-Jan-19
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]					
Cu	Copper	0	0	1	<1
Fe	Iron	39	47	86	46
Cr	Chromium	0	1	1	1
Al	Aluminum	2	5	20	6
Pb	Lead	0	0	0	<1
Sn	Tin	0	0	0	2
Si	Silicon	11	11	35	15
Na	Sodium	2	1	3	3
K	Potassium	1	0	2	2
Mo	Molybdenum	71	71	115	96
Ni	Nickel	0	0	0	<1
Ag	Silver	0	0	0	<1
Ti	Titanium	0	0	1	<1
V	Vanadium	0	0	0	<1
Mn	Manganese	0	1	1	<1
Cd	Cadmium	0	0	0	<1
Ca	Calcium	1054	1146	1605	1683
P	Phosphorus	1121	1116	1150	1100
Zn	Zinc	1297	1312	1253	1305
Mg	Magnesium	962	967	432	389
Ba	Barium	0	0	0	
B	Boron	3	51	626	578

INFRARED (UFM) ASTM E2412					
OXI	Oxidation	10	11	13	14
WATER - HOTPLATE					
W	Water	N	N	N	N
CLEANLINESS					
		06-Apr-22	08-Jan-21	26-May-20	14-Jan-19
PARTICLE COUNT - ISO 11171:1999 reported per ISO 4406					
ISO	ISO Code Rating	21/17/13	23/18/14	23/21/16	23/20/17
4µ	4µ	17910	51691	74166	68420
6µ	6µ	1003	1902	10464	9787
14µ	14µ	72	102	342	925
FERROUS DEBRIS					
PQI	PQ Index	3	12	12	3
VISUAL INSPECTION					
DEP	DEP	N	N	B1	B1
DEP2	DEP2	N	N	DEB	DEB



REPORT COMMENT

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJvUrs>



TRANSMISSION

EQUIP NUM: 100-56

SERIAL NUMBER: HCM1V200K00210360

T010-52103-0102
SAMPLE SHIP TIME (days) : 7
WELLAM CONSTRUCTIONS
PTY LTD
RECEIVED DATE: 13-Apr-22

HITACHI ZX240-3
No Action Required

Interp By: Maria Isabel Mata Vargas
Interpreted On: 05-May-22

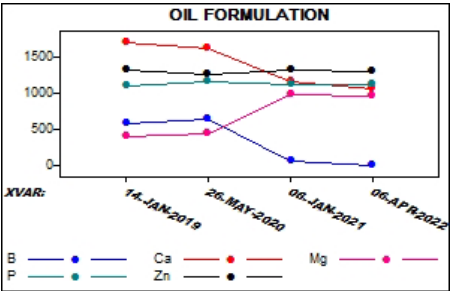
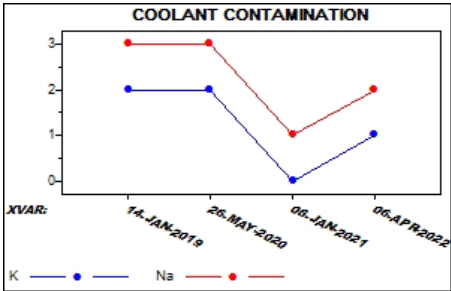
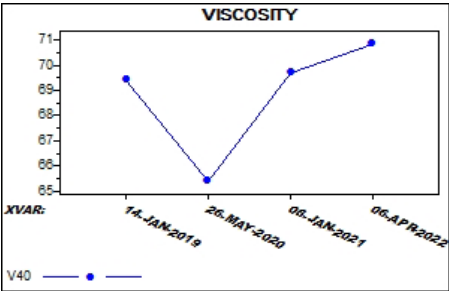
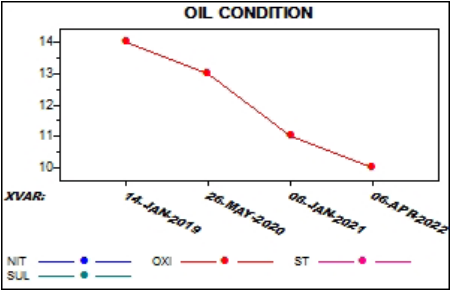
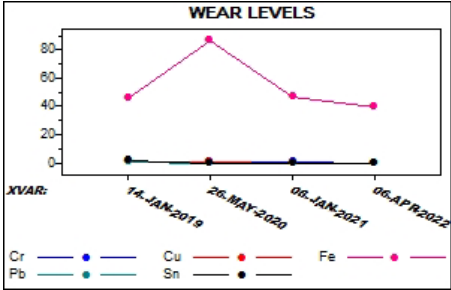
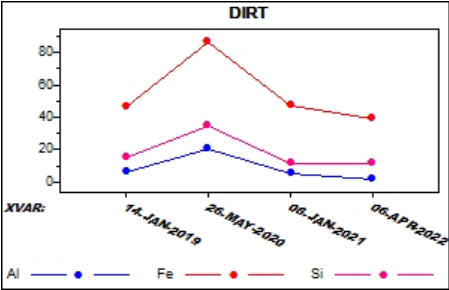
NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING
AT THE NORMAL INTERVAL.

SAMPLE INFORMATION				
Sampled Date	06-Apr-22	08-Jan-21	26-May-20	14-Jan-19
Sample Id	T010-52103-0102	T010-51013-0519	T010-50148-0815	T010-49015-0416
Lab Date	13-Apr-22	13-Jan-21	27-May-20	15-Jan-19
Meter [Hr]	10958	9000	8034	6000
Comp Meter [Hr]				6000
Meter On Fluid	1000	1000	1000	1000
Fluid Brand	MOBIL	CALTEX	CALTEX	CALTEX
Fluid Weight	15W-40	15W-40	15W-40	15W-40
Fluid Type		DELO 400 LE	DELO 400 LE	DELO400
Fluid Change	Y	Y	Y	Y
Filter Change	Y			
Make Up Fluid [L]		0		0

PREVIOUS SAMPLE									
THE REPORTED OIL.	VISCOSITY @ 40C	IS LOWER THAN THE SPECIFICATION FOR THE	INVESTIGATE AND EVALUATE COMPARTMENT CONDITION.						
MONITOR COMPARTMENT AND SCREENS FOR TRANSMISSION COMPARTMENT	FOR WEAR MATERIAL AND SHIFTING OPERATING	FOR RISING OIL LEVEL. CHECK & ENSURE THIS	CHECK FILTER MEDIUM CHECK FOR PROBLEMS.						
WE WILL MONITOR TEST RESULTS	ACTIVITY OVER THE APPEAR ACCEPTABLE.	AS THE OIL HAS BEEN CHANGED,	THE NEXT FEW SAMPLES.						
			RESAMPLE AT THE NEXT SERVICE INTERVAL.						
For additional sample history, go to:							my.cat.com		
CONDITION / CONTAMINATION									
		06-Apr-22		08-Jan-21		26-May-20		14-Jan-19	
VISCOSITY (CENTISTOKES) ASTM D445									
V40	Viscosity at 40 C		70.83		69.7		65.4		69.4

WEAR LEVELS / ADDITIVES					
		06-Apr-22	08-Jan-21	26-May-20	14-Jan-19
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]					
Cu	Copper	0	0	1	<1
Fe	Iron	39	47	86	46
Cr	Chromium	0	1	1	1
Al	Aluminum	2	5	20	6
Pb	Lead	0	0	0	<1
Sn	Tin	0	0	0	2
Si	Silicon	11	11	35	15
Na	Sodium	2	1	3	3
K	Potassium	1	0	2	2
Mo	Molybdenum	71	71	115	96
Ni	Nickel	0	0	0	<1
Ag	Silver	0	0	0	<1
Ti	Titanium	0	0	1	<1
V	Vanadium	0	0	0	<1
Mn	Manganese	0	1	1	<1
Cd	Cadmium	0	0	0	<1
Ca	Calcium	1054	1146	1605	1683
P	Phosphorus	1121	1116	1150	1100
Zn	Zinc	1297	1312	1253	1305
Mg	Magnesium	962	967	432	389
Ba	Barium	0	0	0	
B	Boron	3	51	626	578

INFRARED (UFM) ASTM E2412					
OXI	Oxidation	10	11	13	14
WATER - HOTPLATE					
W	Water	N	N	N	N
CLEANLINESS					
		06-Apr-22	08-Jan-21	26-May-20	14-Jan-19
PARTICLE COUNT - ISO 11171:1999 reported per ISO 4406					
ISO	ISO Code Rating	21/17/13	23/18/14	23/21/16	23/20/17
4µ	4µ	17910	51691	74166	68420
6µ	6µ	1003	1902	10464	9787
14µ	14µ	72	102	342	925
FERROUS DEBRIS					
PQI	PQ Index	3	12	12	3
VISUAL INSPECTION					
DEP	DEP	N	N	B1	B1
DEP2	DEP2	N	N	DEB	DEB



REPORT COMMENT

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJvUrs>

HYDRAULIC SYSTEM

EQUIP NUM: 10056

SERIAL NUMBER: HCM1V100000026772

HITACHI 240LC



Monitor Compartment

Interp By: Tom Cokalis

Interpreted On: 22-Aug-22

T010-52223-0503

SAMPLE SHIP TIME (days) : 3

WELLAM CONSTRUCTIONS
PTY LTD

RECEIVED DATE: 11-Aug-22

IRON IS SLIGHTLY HIGH. ALUMINUM IS SLIGHTLY HIGH. CHECK FILTER MEDIUM AND SCREENS FOR WEAR MATERIAL
AND CONTAMINATION. ALL OTHER TEST RESULTS APPEAR ACCEPTABLE. WE WILL MONITOR ACTIVITY OVER THE NEXT
FEW SAMPLES. AFTER INSPECTION RESAMPLE AT THE NEXT SERVICE INTERVAL TO RE-EVALUATE CONDITION.

SAMPLE INFORMATION



Sampled Date	08-Aug-22
Sample Id	T010-52223-0503
Lab Date	11-Aug-22
Meter [Hr]	11492
Meter On Fluid	1500
Fluid Brand	HITACHI
Fluid Weight	46-ISO
Fluid Type	
Fluid Change	N
Filter Change	N

PREVIOUS SAMPLE

For additional sample history, go to: my.cat.com

CONDITION / CONTAMINATION

08-Aug-22

VISCOSITY (CENTISTOKES) ASTM D445

V40 Viscosity at 40 C 44.96

INFRARED (UFM) ASTM E2412

OXI Oxidation 6

WATER - HOTPLATE

W Water N

WEAR LEVELS / ADDITIVES

08-Aug-22

ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]

Cu	Copper	3
Fe	Iron	25
Cr	Chromium	1
Al	Aluminum	24
Pb	Lead	0
Sn	Tin	1
Si	Silicon	4
Na	Sodium	2
K	Potassium	0
Mo	Molybdenum	0
Ni	Nickel	1
Ag	Silver	0
Ti	Titanium	0
V	Vanadium	0
Mn	Manganese	0
Cd	Cadmium	0
Ca	Calcium	2
P	Phosphorus	558
Zn	Zinc	14
Mg	Magnesium	1
Ba	Barium	0
B	Boron	0

CLEANLINESS

08-Aug-22

PARTICLE COUNT - ISO 11171:1999 reported per ISO 4406

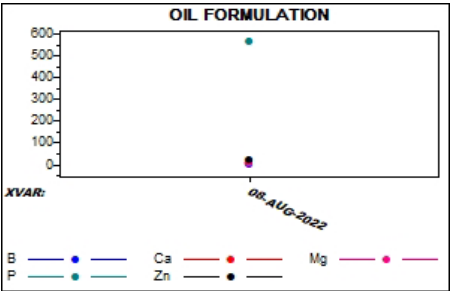
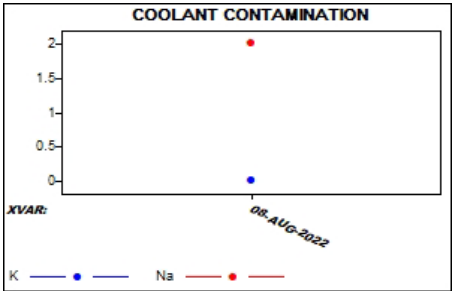
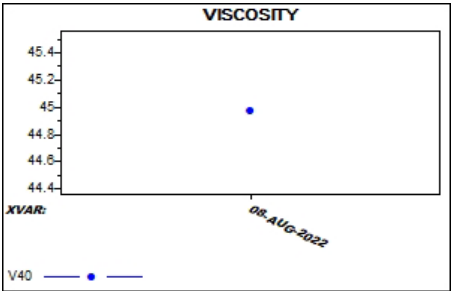
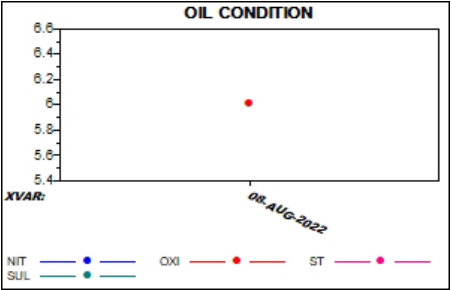
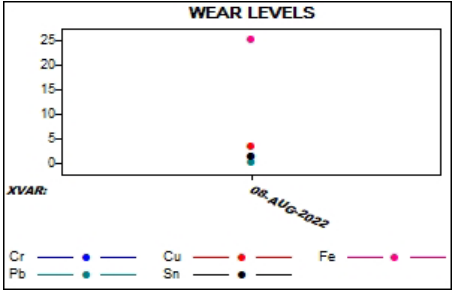
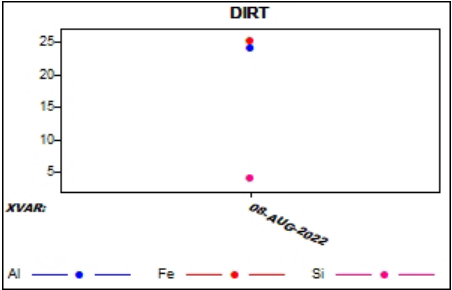
ISO	ISO Code Rating	22/18/13
4μ	4μ	33246
6μ	6μ	1571
14μ	14μ	64

FERROUS DEBRIS

PQI PQ Index 0

VISUAL INSPECTION

DEP	DEP	A1
DEP2	DEP2	DEB



REPORT COMMENT

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJvUrs>



HYDRAULIC SYSTEM

EQUIP NUM: 100-56
HITACHI ZX240-3

SERIAL NUMBER: HCM1V200K00210360

T010-52103-0110
SAMPLE SHIP TIME (days) : 7
WELLAM CONSTRUCTIONS
PTY LTD
RECEIVED DATE: 13-Apr-22



No Action Required

Interp By: Maria Isabel Mata Vargas
Interpreted On: 05-May-22

NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

SAMPLE INFORMATION				
Sampled Date	06-Apr-22	08-Jan-21	24-May-20	20-Jul-18
Sample Id	T010-52103-0110	T010-51013-0301	T010-50148-0809	T010-48208-0101
Lab Date	13-Apr-22	13-Jan-21	27-May-20	27-Jul-18
Meter [Hr]	10958	9000	8034	0
Comp Meter [Hr]				0
Meter On Fluid	2924	3000	4000	0
Fluid Brand	HITACHI	HI-TEC		
Fluid Weight				
Fluid Type	HN46	HN46	HN46	
Fluid Change	N	N	Y	U
Filter Change	Y	Y	Y	
Make Up Fluid [L]		20		

PREVIOUS SAMPLE				
OIL	CONDITION	SATISFACTORY,	CONTINUE	SAMPLING AT THE RECOMMENDED INTERVAL.

For additional sample history, go to: my.cat.com

CONDITION / CONTAMINATION					
		06-Apr-22	08-Jan-21	24-May-20	20-Jul-18
VISCOSITY (CENTISTOKES) ASTM D445					
V40	Viscosity at 40 C	45.07	45.3	45.5	45.2

INFRARED (UFM) ASTM E2412					
OXI	Oxidation	6	5	6	5

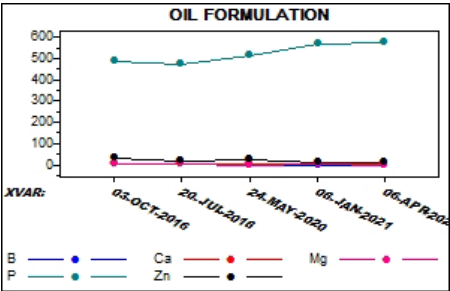
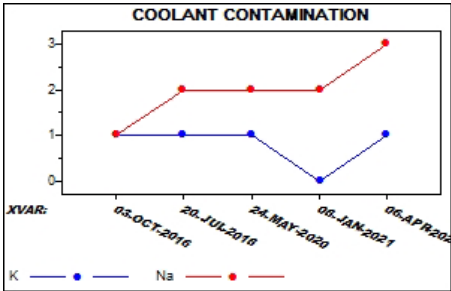
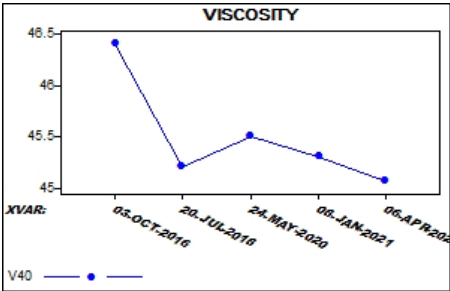
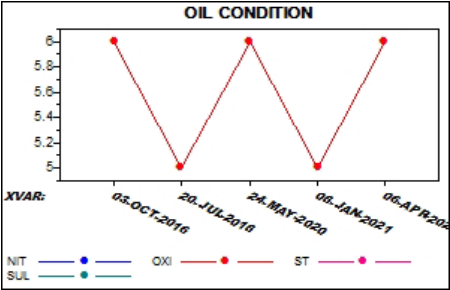
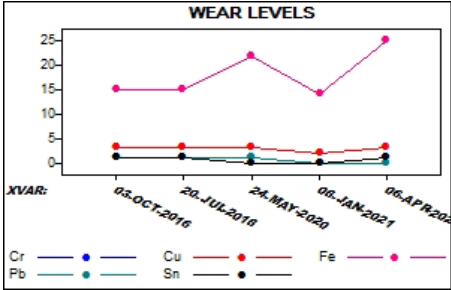
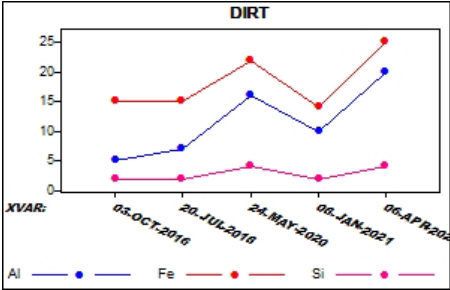
WATER - HOTPLATE					
W	Water	N	N	N	N

WEAR LEVELS / ADDITIVES					
		06-Apr-22	08-Jan-21	24-May-20	20-Jul-18
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]					
Cu	Copper	3	2	3	3
Fe	Iron	25	14	22	15
Cr	Chromium	1	0	1	<1
Al	Aluminum	20	10	16	7
Pb	Lead	0	0	1	<1
Sn	Tin	1	0	0	<1
Si	Silicon	4	2	4	2
Na	Sodium	3	2	2	2
K	Potassium	1	0	1	<1
Mo	Molybdenum	0	0	0	<1
Ni	Nickel	0	0	0	<1
Ag	Silver	0	0	0	<1
Ti	Titanium	0	0	0	<1
V	Vanadium	0	0	0	<1
Mn	Manganese	0	0	0	<1
Cd	Cadmium	0	0	0	<1
Ca	Calcium	2	2	4	2
P	Phosphorus	571	565	512	475
Zn	Zinc	14	10	21	19
Mg	Magnesium	0	1	0	<1
Ba	Barium	0	0	0	
B	Boron	0	0	0	<1

CLEANLINESS					
		06-Apr-22	08-Jan-21	24-May-20	20-Jul-18
PARTICLE COUNT - ISO 11171:1999 reported per ISO 4406					
ISO	ISO Code Rating	22/19/14	22/18/14	22/17/11	23/19/13
4µ	4µ	32228	23295	38205	40422
6µ	6µ	3599	1544	743	2751
14µ	14µ	93	97	20	71

FERROUS DEBRIS					
PQI	PQ Index	6	8	7	2

VISUAL INSPECTION					
DEP	DEP	A1	B1	N	A1
DEP2	DEP2	DEB	DEB	N	DEB



REPORT COMMENT

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJvUrs>

William Adams



WILLIAM ADAMS PTY. LTD - William Adams Pty. Ltd.,17-55 Nantilla Road, Clayton North, Vic, 3168, Australia

PHONE: 03 9566 0666

Email: SOSManager@wadams.com.au Web: www.williamadams.com.au

CONTACT INFORMATION

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AUS 3220
PHONE: 352214366
FAX: 352218226
Email: nickcullen@wellam.com.au

EQUIPMENT

CUSTOMER EQUIP NUM : 100-56
SERIAL NUMBER : 26772
MODEL : ZX240-3
MANUFACTURER : HITACHI
COMPANY NAME : WELLAM CONSTRUCTIONS PTY LTD
JOB SITE :
AREA:
REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : HYDRAULIC SYSTEM
COMP SERIAL NUM :
COMPARTMENT MODEL :
LABEL#:
SHOP JOB NUM :
SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days) : 1
SAMPLE LOCATION : SHOP

Interp By: Barry Swindells

No Action Required

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL. MORE SAMPLES NEEDED TO DEVELOP A TREND.

LAB #

T010-47213-0701

WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	B
31-Jul-17	T010-47213-0701	3600	3600	N	N	3	17	<1	7	2	<1	3	1	1	<1	<1	<1	<1	<1	<1	<1	2	391	31	<1	<1

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V40	OXI	W
31-Jul-17	T010-47213-0701	HITACHI	HN	46	N	N	46.8	6	N

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	ISO	PQI	4μ	6μ	14μ	DEP	DEP2
31-Jul-17	T010-47213-0701	N	N	21/15/12	4	12031	202	24	B1	DEB

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, Fe = Iron, ISO = ISO Rating, K = Potassium, Mg = Magnesium, Mn = Manganese, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PQI = Particle Quantifying index, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V40 = Viscosity@40C, W = Water, Zn = Zinc

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.

William Adams



WILLIAM ADAMS PTY. LTD - William Adams Pty. Ltd.,17-55 Nantilla Road, Clayton North, Vic, 3168, Australia

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Email: nickcullen@wellam.com.au

EQUIPMENT

CUSTOMER EQUIP NUM : 100-56
SERIAL NUMBER : 26772
MODEL : ZX240-3
MANUFACTURER : HITACHI
COMPANY NAME : WELLAM CONSTRUCTIONS PTY LTD
JOB SITE :
AREA:
REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : FINAL DRIVE REAR RIGHT
COMP SERIAL NUM :
COMPARTMENT MODEL :
LABEL#:
SHOP JOB NUM :
SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days) : 6
SAMPLE LOCATION :

Interp By: Barry Swindells

Monitor Compartment

LAB #
T010-48059-0140

PQ & WEAR LEVELS INCLUDING SILICON ARE HIGH, OIL TOO DARK FOR PARTICLE COUNT TO REGISTER VALUES. DIRT MAY BE CONTRIBUTING TO HIGHER THAN NORMAL WEAR. LOCATE AND RECTIFY DIRT ENTRY. INVESTIGATE AND EVALUATE COMPARTMENT CONDITION. INSPECT ANY MAGNETIC PLUG(S) FOR FERROUS METAL & CHECK OIL FOR OTHER VISIBLE MATERIAL/ METAL, ETC. CHECK FOR LEAKS. CHECK THE SEALS, BREATHERS AND FILL POINTS FOR DIRT ENTRY POINTS. AS THE OIL HAS BEEN CHANGED. WE WILL MONITOR ACTIVITY OVER THE NEXT FEW SAMPLES. ALL OTHER TEST RESULTS APPEAR ACCEPTABLE. RESAMPLE AT THE NEXT SERVICE INTERVAL. MORE SAMPLES NEEDED TO DEVELOP A TREND.

WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	B
22-Feb-18	T010-48059-0140	4506	500	Y	NA	2	1116	7	49	<1	<1	304	5	8	<1	<1	<1	6	<1	7	<1	21	905	4	7	153

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V40	OXI	W
22-Feb-18	T010-48059-0140	CALTEX		80W-90	Y	NA	140.6	5	N

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI	DEP	DEP2
22-Feb-18	T010-48059-0140	Y	NA	429	dark	N

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, Fe = Iron, ISO = ISO Rating, K = Potassium, Mg = Magnesium, Mn = Manganese, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PQI = Particle Quantifying index, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V40 = Viscosity@40C, W = Water, Zn = Zinc

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.



CONTACT INFORMATION	EQUIPMENT	SAMPLE INFORMATION
NICK CULLEN WELLAM CONSTRUCTIONS PTY LTD PO BOX 417 GEELONG, VIC AUS 3220 PHONE: 352214366 FAX: 352218226 Email: nickcullen@wellam.com.au	CUSTOMER EQUIP NUM : 100-56 SERIAL NUMBER : HCM1V200K00210360 MODEL : ZX240-3 MANUFACTURER : HITACHI COMPANY NAME : WELLAM CONSTRUCTIONS PTY LTD JOB SITE : AREA: REGION:	COMPARTMENT NAME : FINAL DRIVE REAR RIGHT COMP SERIAL NUM : COMPARTMENT MODEL : LABEL#: SHOP JOB NUM : SAMPLE TYPE: OIL SAMPLE SHIP TIME (days) : 5 SAMPLE LOCATION : GEELONG

No Action Required

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB #
T010-46167-0824

WEAR/CONTAMINATION - ADDITIVES/FORMULATION																											
SAMPLE DATE	SAMPLE ID	METER	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	B
10-Jun-2016	T010-46167-0824	1534	500	Y		NAR	<1	115	2	10	<1	<1	35	<1	2	<1	<1	<1	<1	<1	2	<1	8	513	7	1	28

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION										
SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	V40	OXI	W
10-Jun-2016	T010-46167-0824		GEAR OIL	80W-90	Y		NAR	135.2	4	N

OIL CLEANLINESS											
SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	ISO	PQI	4µ	6µ	14µ	DEP	DEP2
10-Jun-2016	T010-46167-0824	Y		NAR	24/24/22	210	121475	101056	31977	N	N

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, Fe = Iron, ISO = ISO Rating, K = Potassium, Mg = Magnesium, Mn = Manganese, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PQI = Particle Quantifying index , Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V40 = Viscosity@40C, W = Water, Zn = Zinc

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William Adams



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CONTACT INFORMATION

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GEELONG, VIC
AUS 3220
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FAX: 352218226
Email: nickcullen@wellam.com.au

EQUIPMENT

CUSTOMER EQUIP NUM : 100-56
SERIAL NUMBER : 26772
MODEL : ZX240-3
MANUFACTURER : HITACHI
COMPANY NAME : WELLAM CONSTRUCTIONS PTY LTD
JOB SITE :
AREA:
REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : FINAL DRIVE REAR LEFT
COMP SERIAL NUM :
COMPARTMENT MODEL :
LABEL#:
SHOP JOB NUM :
SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days) : 6
SAMPLE LOCATION :

Interp By: Barry Swindells

Action Required

PQ & WEAR LEVELS INCLUDING SILICON ARE HIGH, VISIBLE MAGNETIC DEPOSITS FOUND IN THE OIL SAMPLE. DIRT MAY BE CONTRIBUTING TO HIGHER THAN NORMAL WEAR. LOCATE AND RECTIFY DIRT ENTRY. INVESTIGATE AND EVALUATE COMPARTMENT CONDITION. INSPECT ANY MAGNETIC PLUG(S) FOR FERROUS METAL & CHECK OIL FOR OTHER VISIBLE MATERIAL/ METAL, ETC. CHECK FOR LEAKS. CHECK THE SEALS, BREATHERS AND FILL POINTS FOR DIRT ENTRY POINTS. WE WILL MONITOR ACTIVITY OVER THE NEXT FEW SAMPLES. ALL OTHER TEST RESULTS APPEAR ACCEPTABLE. RESAMPLE AT THE NEXT SERVICE INTERVAL. MORE SAMPLES NEEDED TO DEVELOP A TREND.

LAB #
T010-48059-0139

WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	B
22-Feb-18	T010-48059-0139	4506	500	Y	NA	1	573	3	49	<1	<1	221	5	7	<1	1	<1	5	<1	4	<1	38	907	10	8	164

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V40	OXI	W
22-Feb-18	T010-48059-0139	CALTEX		80W-90	Y	NA	135.8	6	N

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI	DEP	DEP2
22-Feb-18	T010-48059-0139	Y	NA	468	B3	mag

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, Fe = Iron, ISO = ISO Rating, K = Potassium, Mg = Magnesium, Mn = Manganese, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PQI = Particle Quantifying index, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V40 = Viscosity@40C, W = Water, Zn = Zinc

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William Adams



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AUS 3220
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FAX: 352218226
Email: nickcullen@wellam.com.au

Interp By: Tom Cokalis

EQUIPMENT

CUSTOMER EQUIP NUM : 100-56
SERIAL NUMBER : HCM1V200K00210360
MODEL : ZX240-3
MANUFACTURER : HITACHI
COMPANY NAME : WELLAM CONSTRUCTIONS PTY LTD
JOB SITE :
AREA:
REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : FINAL DRIVE REAR LEFT
COMP SERIAL NUM :
COMPARTMENT MODEL :
LABEL#:
SHOP JOB NUM :
SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days) : 5
SAMPLE LOCATION : GEELONG

No Action Required

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB #

T010-46167-0823

WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	B
10-Jun-2016	T010-46167-0823	1534	500	Y		NAR	<1	128	2	5	<1	<1	24	1	1	<1	<1	<1	<1	<1	2	<1	15	506	9	1	26

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	V40	OXI	W
10-Jun-2016	T010-46167-0823		GEAR OIL	80W-90	Y		NAR	135.0	4	N

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	ISO	PQI	4µ	6µ	14µ	DEP	DEP2
10-Jun-2016	T010-46167-0823	Y		NAR	24/24/22	191	120665	100765	32747	N	N

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, Fe = Iron, ISO = ISO Rating, K = Potassium, Mg = Magnesium, Mn = Manganese, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PQI = Particle Quantifying index, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V40 = Viscosity@40C, W = Water, Zn = Zinc

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WELLAM CONSTRUCTIONS PTY. LTD.

A.B.N. 16 006 312 518

EARTHMOVING AND CIVIL ENGINEERING CONTRACTORS

Office and Depot: 105 BARWON TERRACE, GEELONG SOUTH, 3220.

Postal Address: P.O. Box 417, GEELONG, 3220.

TEL: (03) 5221 4366

EMAIL: wellamconstructions@wellam.com.au

PLANT MAINTENANCE or REPAIR REPORT

Date: 8-Aug-22 Current Operator: Chris Webb

ID No: 100 56. Hitachi ZX240LC-3 Excavator

Machine Hours: 11,492

Machine Kms:

Machine in for ☐ Repairs



Routine Maintenance

As per manufacturer's specifications of handbook

Type of service: ☐ 250 hr. ☒ 500 hr. ☐ 1000 hr. ☐ 2000 hr. ☐ 10,000 km.

Replace:

- ☒ Engine Oil & Filter
- ☐ Hydraulic Oil
- ☐ Hydraulic Filters
- ☒ Fuel Filters
- ☐ Inner ☒ Outer Air Filters
- ☐ Cab Filters
- ☐ Transmission Filter
- ☐ Transmission Oil

Differentials

☐ Front ☐ Centre ☐ Rear

Check: ☒ Levels ☒ Top Up
☒ Belts

☒ SOS Sample Taken

Existing Condition of Machine

Cabin Acceptable

Body ☒ Daily check list completed regularly

☐ Damage

☐ Fluid leaks

☐ Greased regularly

☒ Fluid levels being checked

☒ Does the machine look like it's being looked after?

☐ Anything visually obvious (detail)

Description of Additional Work Performed

Carried out 500hr service, SOS samples taken, belts good, greased, replaced final drive oils. test all-OK.

Further Work Required

Hazards or risk to health, safety and or environment:



Fumes



Guards



Manual Handling



Heat/Cold



Fire Risk

Mechanic: Zach Moules-Clark & Jack Dowie

To be completed and filed with all previous Plant Service and Maintenance Records.

Copy to be emailed to wellamconstructions@wellam.com.au



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PLANT MAINTENANCE or REPAIR REPORT

Date: 6-Apr-22 Current Operator: Chris Webb

ID No: 100 56. Hitachi ZX240LC-3 Excavator

Machine Hours: 10958

Machine Kms:

Machine in for ☐ Repairs



Routine Maintenance

As per manufacturer's specifications of handbook

Type of service: ☐ 250 hr. ☐ 500 hr. ☒ 1000 hr. ☐ 2000 hr. ☐ 10,000 km.

Replace:

- ☒ Engine Oil & Filter
- ☐ Hydraulic Oil
- ☒ Hydraulic Filters
- ☒ Fuel Filters
- ☐ Inner ☒ Outer Air Filters
- ☒ Cab Filters
- ☐ Transmission Filter
- ☒ Transmission Oil

Differentials

☐ Front ☐ Centre ☒ Rear

Check: ☒ Levels ☒ Top Up
☒ Belts

☒ SOS Sample Taken

Existing Condition of Machine

Cabin Acceptable

Body

- ☒ Daily check list completed regularly
- ☐ Damage
- ☐ Fluid leaks
- ☒ Greased regularly
- ☒ Fluid levels being checked
- ☐ Does the machine look like it's being looked after?
- ☐ Anything visually obvious (detail)

Description of Additional Work Performed

1000hr service done in the yard, sos taken, replace fan belt, grease

Further Work Required

Hazards or risk to health, safety and or environment:

☒ Fumes ☒ Guards ☒ Manual Handling ☒ Heat/Cold ☒ Fire Risk

Mechanic: Jeremy Cullen

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PLANT MAINTENANCE *or* REPAIR REPORT

Date: 15-Jan-22 Current Operator: Chris Webb

ID No: 100 56. Hitachi ZX240LC-3 Excavator

Machine Hours: 10,588

Machine Kms:

Machine in for ☐ Repairs



Routine Maintenance

As per manufacturer's specifications of handbook

Type of service: ☐ 250 hr. ☒ 500 hr. ☐ 1000 hr. ☐ 2000 hr. ☐ 10,000 km.

Replace:

- ☒ Engine Oil & Filter
- ☐ Hydraulic Oil
- ☐ Hydraulic Filters
- ☒ Fuel Filters
- ☐ Inner ☒ Outer Air Filters
- ☐ Cab Filters
- ☐ Transmission Filter
- ☐ Transmission Oil

Differentials

☐ Front ☐ Centre ☒ Rear

Check: ☒ Levels ☒ Top Up
☒ Belts

☒ SOS Sample Taken

Existing Condition of Machine

Cabin Acceptable

Body ☒ Daily check list completed regularly

☐ Damage

☐ Fluid leaks

☒ Greased regularly

☒ Fluid levels being checked

☒ Does the machine look like it's being looked after?

☐ Anything visually obvious (detail)

Description of Additional Work Performed

Complete 500 hour service all levels checked final drive oils replace belts adjusted. SOS samples taken

Further Work Required

Hazards or risk to health, safety and or environment:



Fumes



Guards



Manual Handling



Heat/Cold



Fire Risk

Mechanic: Jordan Greenslade & Jeremy Cullen

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PLANT MAINTENANCE or REPAIR REPORT

Date: 22-Sep-21 Current Operator: Chris Webb

ID No: 100 56. Hitachi ZX240LC-3 Excavator

Machine Hours: 10,137

Machine Kms:

Machine in for ☐ Repairs



Routine Maintenance

As per manufacturer's specifications of handbook

Type of service: ☐ 250 hr. ☐ 500 hr. ☒ 1000 hr. ☐ 2000 hr. ☐ 10,000 km.

Replace:

- ☒ Engine Oil & Filter
- ☐ Hydraulic Oil
- ☒ Hydraulic Filters
- ☒ Fuel Filters
- ☐ Inner ☒ Outer Air Filters
- ☒ Cab Filters
- ☒ Transmission Filter
- ☒ Transmission Oil

Differentials

☐ Front ☐ Centre ☒ Rear

Check: ☒ Levels ☒ Top Up
☒ Belts

☒ SOS Sample Taken

Existing Condition of Machine

Cabin Acceptable

Body ☒ Daily check list completed regularly

☐ Damage

☒ Fluid leaks

☒ Greased regularly

☐ Fluid levels being checked

☐ Does the machine look like it's being looked after?

☐ Anything visually obvious (detail)

Fuel leak Repair

Two Broken brackets Repaired

Description of Additional Work Performed

Complete 1000 hour service all filters replaced final drive oils replaced. Belts checked and adjusted Pump trans oil replaced, tracks adjusted sos samples taken.

Further Work Required

Hazards or risk to health, safety and or environment:



Fumes



Guards



Manual Handling



Heat/Cold



Fire Risk

Mechanic: Jordan Greenslade

To be completed and filed with all previous Plant Service and Maintenance Records.

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PLANT MAINTENANCE or REPAIR REPORT

Date: 24-May-21 Current Operator: Chris Webb

ID No: 100 56. Hitachi ZX240LC-3 Excavator

Machine Hours: 9,545

Machine Kms:

Machine in for ☐ Repairs



Routine Maintenance

As per manufacturer's specifications of handbook

Type of service: ☐ 250 hr. ☒ 500 hr. ☐ 1000 hr. ☐ 2000 hr. ☐ 10,000 km.

Replace:

- ☒ Engine Oil & Filter
- ☐ Hydraulic Filters
- ☒ Fuel Filters
- ☐ Inner ☒ Outer Air Filters
- ☐ Cab Filters
- ☐ Transmission Filter
- ☐ Transmission Oil

Differentials

☐ Front ☐ Centre ☒ Rear

Check: ☒ Levels ☒ Top Up
☒ Belts

☒ SOS Sample Taken

Existing Condition of Machine

Cabin Acceptable

Body ☒ Daily check list completed regularly

- ☐ Damage
- ☐ Fluid leaks
- ☐ Greased regularly
- ☐ Fluid levels being checked
- ☐ Does the machine look like it's being looked after?
- ☐ Anything visually obvious (detail)

Description of Additional Work Performed

Complete 500 hour service all levels checked final drive oils replaced SOS samples taken belts adjusted

Further Work Required

Hazards or risk to health, safety and or environment:

☒ Fumes ☒ Guards ☒ Manual Handling ☒ Heat/Cold ☒ Fire Risk

Mechanic: Jordan Greenslade

To be completed and filed with all previous Plant Service and Maintenance Records.

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TEL: (03) 5221 4366

EMAIL: wellamconstructions@wellam.com.au

PLANT MAINTENANCE or REPAIR REPORT

Date: 8-Jan-21 Current Operator: Chris webb

ID No: 100 56. Hitachi ZX240LC-3 Excavator

Machine Hours: 9000

Machine Kms:

Machine in for ☒ Repairs ☒ Routine Maintenance

As per manufacturer's specifications of handbook

Type of service: ☐ 250 hr. ☐ 500 hr. ☐ 1000 hr. ☒ 2000 hr. ☐ 10,000 km.

Replace:

- ☒ Engine Oil & Filter
- ☒ Hydraulic Filters
- ☒ Fuel Filters
- ☐ Inner ☒ Outer Air Filters
- ☒ Cab Filters
- ☐ Transmission Filter
- ☒ Transmission Oil

Differentials

☐ Front ☐ Centre ☒ Rear

Check: ☒ Levels ☒ Top Up
☒ Belts

☒ SOS Sample Taken

Existing Condition of Machine

Cabin Acceptable

- Body
- ☐ Daily check list completed regularly
 - ☐ Damage
 - ☐ Fluid leaks
 - ☐ Greased regularly
 - ☐ Fluid levels being checked
 - ☐ Does the machine look like it's being looked after?
 - ☐ Anything visually obvious (detail)

Description of Additional Work Performed

Re track machine ,replace 4 upper rollers,two front idlers , chains and sprockets perform 1000hr service fully clean , hot wash and grease

Further Work Required

Hazards or risk to health, safety and or environment:

☐ Fumes ☐ Guards ☐ Manual Handling ☐ Heat/Cold ☐ Fire Risk

Mechanic: John Haire

To be completed and filed with all previous Plant Service and Maintenance Records.

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PLANT MAINTENANCE or REPAIR REPORT

Date: 16-Sep-20 Current Operator: Chris Webb

ID No: 100 56. Hitachi ZX240LC-3 Excavator

Machine Hours: 8,510

Machine Kms:

Machine in for ☐ Repairs



Routine Maintenance

As per manufacturer's specifications of handbook

Type of service: ☐ 250 hr. ☒ 500 hr. ☐ 1000 hr. ☐ 2000 hr. ☐ 10,000 km.

Replace:

- ☒ Engine Oil & Filter
- ☐ Hydraulic Filters
- ☒ Fuel Filters
- ☐ Inner ☒ Outer Air Filters
- ☐ Cab Filters
- ☐ Transmission Filter
- ☐ Transmission Oil

Differentials

☐ Front ☐ Centre ☒ Rear

Check: ☒ Levels ☒ Top Up

☒ Belts

☒ SOS Sample Taken

Existing Condition of Machine

Cabin Acceptable

Body

- ☒ Daily check list completed regularly
- ☐ Damage
- ☐ Fluid leaks
- ☐ Greased regularly
- ☒ Fluid levels being checked
- ☒ Does the machine look like it's being looked after?
- ☐ Anything visually obvious (detail)

Description of Additional Work Performed

Complete 500 hour service all levels check and topped up belts adjusted final drive oils replaced

Further Work Required

Hazards or risk to health, safety and or environment:

☒ Fumes ☒ Guards ☒ Manual Handling ☒ Heat/Cold ☒ Fire Risk

Mechanic: Jordan Greenslade & Jeremy Cullen

To be completed and filed with all previous Plant Service and Maintenance Records.

Copy to be emailed to wellamconstructions@wellam.com.au

☐ IMS ☐ EM EQ ☐ EM Meter Reading



WELLAM CONSTRUCTIONS PTY. LTD.

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TEL: (03) 5221 4366

EMAIL: wellamconstructions@wellam.com.au

PLANT MAINTENANCE or REPAIR REPORT

Date: 26-May-20 Current Operator: Chris Webb

ID No: 100 56. Hitachi ZX240LC-3 Excavator

Machine Hours: 8000

Machine Kms:

Machine in for ☐ Repairs



Routine Maintenance

As per manufacturer's specifications of handbook

Type of service: ☐ 250 hr. ☐ 500 hr. ☐ 1000 hr. ☒ 2000 hr. ☐ 10,000 km.

Replace:

- ☒ Engine Oil & Filter
- ☒ Hydraulic Filters
- ☒ Fuel Filters
- ☒ Inner ☒ Outer Air Filters
- ☒ Cab Filters
- ☐ Transmission Filter
- ☐ Transmission Oil

Differentials

☐ Front ☐ Centre ☒ Rear

Check: ☒ Levels ☒ Top Up

☒ Belts

☒ SOS Sample Taken

Existing Condition of Machine

Cabin Acceptable

Body

- ☐ Daily check list completed regularly
- ☐ Damage
- ☐ Fluid leaks
- ☐ Greased regularly
- ☐ Fluid levels being checked
- ☐ Does the machine look like it's being looked after?
- ☐ Anything visually obvious (detail)

Description of Additional Work Performed

Perform 2000 hr service , change every filter ,change hydraulic oil,adjust belts and tracks, hot wash off

Further Work Required

Hazards or risk to health, safety and or environment:

☒ Fumes ☒ Guards ☒ Manual Handling ☒ Heat/Cold ☒ Fire Risk

Mechanic: John Haire

To be completed and filed with all previous Plant Service and Maintenance Records.

Copy to be emailed to wellamconstructions@wellam.com.au

☐ IMS ☐ EM EQ ☐ EM Meter Reading



WELLAM CONSTRUCTIONS PTY. LTD.

A.B.N. 16 006 312 518

EARTHMOVING AND CIVIL ENGINEERING CONTRACTORS

Office and Depot: 105 BARWON TERRACE, GEELONG SOUTH, 3220.

Postal Address: P.O. Box 417, GEELONG, 3220.

TEL: (03) 5221 4366

EMAIL: wellamconstructions@wellam.com.au

PLANT MAINTENANCE *or* REPAIR REPORT

Date: 8-Jan-20 Current Operator: chris webb

ID No: 100 56. Hitachi ZX240LC-3 Excavator

Machine Hours: 7504.5 Machine Kms:

Machine in for ☐ Repairs



Routine Maintenance

As per manufacturer's specifications of handbook

Type of service: ☐ 250 hr. ☒ 500 hr. ☐ 1000 hr. ☐ 2000 hr. ☐ 10,000 km.

Replace:

- ☒ Engine Oil & Filter
- ☐ Hydraulic Filters
- ☒ Fuel Filters
- ☒ Inner ☒ Outer Air Filters
- ☐ Cab Filters
- ☐ Transmission Filter
- ☐ Transmission Oil

Differentials

☒ Front ☐ Centre ☐ Rear

Check: ☒ Levels ☒ Top Up

☒ Belts

☒ SOS Sample Taken

Existing Condition of Machine

Cabin Acceptable

Body

- ☐ Daily check list completed regularly
- ☐ Damage
- ☐ Fluid leaks
- ☐ Greased regularly
- ☐ Fluid levels being checked
- ☐ Does the machine look like it's being looked after?
- ☐ Anything visually obvious (detail)

Description of Additional Work Performed

Further Work Required

Hazards or risk to health, safety and or environment:

☒ Fumes ☒ Guards ☒ Manual Handling ☒ Heat/Cold ☒ Fire Risk

Mechanic: Samuel Murphy

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PLANT MAINTENANCE *or* REPAIR REPORT

Date: 11-May-19 Current Operator: chris webb

ID No: 100 56. Hitachi ZX240LC-3 Excavator

Machine Hours: 6511

Machine Kms:

Machine in for ☐ Repairs



Routine Maintenance

As per manufacturer's specifications of handbook

Type of service: ☐ 250 hr. ☒ 500 hr. ☐ 1000 hr. ☐ 2000 hr. ☐ 10,000 km.

Replace:

- ☒ Engine Oil & Filter
- ☐ Hydraulic Filters
- ☒ Fuel Filters
- ☐ Inner ☒ Outer Air Filters
- ☐ Cab Filters
- ☐ Transmission Filter
- ☐ Transmission Oil

Differentials

☐ Front ☐ Centre ☒ Rear

Check: ☒ Levels ☒ Top Up

☒ Belts

☒ SOS Sample Taken

Existing Condition of Machine

Cabin Acceptable

Body

- ☒ Daily check list completed regularly
- ☐ Damage
- ☐ Fluid leaks
- ☐ Greased regularly
- ☐ Fluid levels being checked
- ☐ Does the machine look like it's being looked after?
- ☐ Anything visually obvious (detail)

down 7litres of engine oil

Description of Additional Work Performed

complete 500 hour service all levels checked final drive oils replaced sos taken belts adjusted

Further Work Required

Hazards or risk to health, safety and or environment:

☒ Fumes ☒ Guards ☒ Manual Handling ☒ Heat/Cold ☒ Fire Risk

Mechanic: Jordan Greenslade & Jeremy Cullen

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PLANT MAINTENANCE *or* REPAIR REPORT

Date: 12-Jan-19

ID No: 100 56. Hitachi ZX240LC-3 Excavator

Machine Hours: 5993.2

Machine Kms:

Machine in for ☐ Repairs



Routine Maintenance

As per manufacturer's specifications of handbook

Type of service: ☐ 250 hr. ☐ 500 hr. ☐ 1000 hr. ☒ 2000 hr. ☐ 10,000 km.

Replace:

- ☒ Engine Oil & Filter
- ☒ Hydraulic Filters
- ☒ Fuel Filters
- ☒ Inner ☒ Outer Air Filters
- ☒ Cab Filters
- ☐ Transmission Filter

Differentials

☐ Front ☐ Centre ☒ Rear

Check: ☒ Levels ☒ Top Up

☒ Belts

☒ SOS Sample Taken

Existing Condition of Machine

Cabin Acceptable

Body

- ☒ Daily check list completed regularly
- ☐ Damage
- ☐ Fluid leaks
- ☒ Greased regularly
- ☒ Fluid levels being checked
- ☒ Does the machine look like it's being looked after?
- ☐ Anything visually obvious (detail)

Description of Additional Work Performed

Further Work Required

Hazards or risk to health, safety and or environment:

☒ Fumes ☒ Guards ☒ Manual Handling ☒ Heat/Cold ☒ Fire Risk

Mechanic: John Haire

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EMAIL: wellamconstructions@wellam.com.au

PLANT MAINTENANCE or REPAIR REPORT

Date: 22-Sep-18

ID No: 100 56. Hitachi ZX240LC-3 Excavator

Machine Hours: 5506

Machine Kms:

Machine in for ☐ Repairs



Routine Maintenance

As per manufacturer's specifications of handbook

Type of service: ☐ 250 hr. ☒ 500 hr. ☐ 1000 hr. ☐ 2000 hr. ☐ 10,000 km.

Replace:

☒ Engine Oil & Filter

☐ Hydraulic Filters

☒ Fuel Filters

☐ Inner ☒ Outer Air Filters

☐ Cab Filters

☐ Transmission Filter

Differentials

☐ Front ☐ Centre ☒ Rear

Check: ☒ Levels ☒ Top Up

☒ Belts

☒ SOS Sample Taken

Existing Condition of Machine

Cabin Acceptable

Body ☒ Daily check list completed regularly

☐ Damage

☐ Fluid leaks

☒ Greased regularly

☒ Fluid levels being checked

☒ Does the machine look like it's being looked after?

☐ Anything visually obvious (detail)

Description of Additional Work Performed

complete 500hr all levels checked topped up if needed.

Further Work Required

door lock and A/C to be repaired

Hazards or risk to health, safety and or environment:



Fumes



Guards



Manual Handling



Heat/Cold



Fire Risk

Mechanic: Jordan Greenslade & Jeremy Cullen

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IMS



EM EQ



EM Meter Reading



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PLANT MAINTENANCE *or* REPAIR REPORT

Date: 19-Jun-18

ID No: 100 56. Hitachi ZX240LC-3 Excavator

Machine Hours: 5034

Machine Kms:

Machine in for ☐ Repairs

☒ **Routine Maintenance**

As per manufacturer's specifications of handbook

Type of service: ☐ 250 hr. ☐ 500 hr. ☒ 1000 hr. ☐ 2000 hr. ☐ 10,000 km.

Replace:

☒ Engine Oil & Filter

☒ Hydraulic Filters

☒ Fuel Filters

☐ Inner ☒ Outer Air Filters

☒ Cab Filters

☒ Transmission Filter

Differentials

☐ Front ☐ Centre ☒ Rear

Check: ☒ Levels ☒ Top Up

☒ Belts

☒ SOS Sample Taken

Existing Condition of Machine

Cabin Acceptable

Body ☒ Daily check list completed regularly

☐ Damage

☐ Fluid leaks

☒ Greased regularly

☒ Fluid levels being checked

☐ Does the machine look like it's being looked after?

☐ Anything visually obvious (detail)

Description of Additional Work Performed

Complete 1000hr service at ocean grove. SOS taken, pumptrans oil replaced with pilot filter

Further Work Required

Hazards or risk to health, safety and or environment:

☒ Fumes ☒ Guards ☒ Manual Handling ☒ Heat/Cold ☒ Fire Risk

Mechanic: Jordan Greenslade & Jeremy Cullen

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EMAIL: wellamconstructions@wellam.com.au

SERVICE, MAINTENANCE or REPAIR REPORT

Date: 21.12.18
ID No: 100.56 Description: 240 HITACHI (AIDAN)
Machine Hours: 4516 Machine Kms:

Routine maintenance:

As per manufacturer's specifications of handbook

☒ Yes

☐ No

Type of service:

- ☐ 250 hr. ☒ 500 hr. ☐ 1000 hr. ☐ 2000 hr.
☐ 10,000 km. (for vehicles between 4.5 and 16 tonne
GMV complete the table over the page.)

Description of Work Performed.

ENGINE OIL + FILTER REPLACED S.O.S TALKED
BOTH FUEL FILTERS REPLACED
BOTH FINAL DRIVE OILS REPLACED
ADJUSTED BELTS
ALL LEVELS CHECKED
AIR FILTERS BLOWN OUT PRE CRANKER BLOWN
OUT

Further Work Required

Hazards or risk to health, safety and or environment:

- ☒ Fumes ☒ Guards ☒ Manual Handling ☒ Heat/Cold ☒ Fire Risk

Mechanic:

Jerry + Jen

Signature:

To be completed and filed with all previous Plant Service and Maintenance Records.



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EMAIL: wellamconstructions@wellam.com.au

SERVICE, MAINTENANCE or REPAIR REPORT

Date: 20.10.17

ID No: 100-56 Description: Hitachi 240

Machine Hours: 4011 Machine Kms:

Routine maintenance:

As per manufacturer's specifications of handbook

☒ Yes

☐ No

Type of service:

☐ 250 hr. ☐ 500 hr. ☐ 1000 hr. ☒ 2000 hr. 4000 hr.
☐ 10,000 km. (for vehicles between 4.5 and 16 tonne
GMV complete the table over the page.)

Description of Work Performed.

Replace engine oil & filter.
Replace Air, Hydro, Fuel Filters.
Replace Hydraulic oil. Take all samples.
Replace Final drive oil, Replace Pump & lines oil.
check and top up Coolant.
Replace Cabin Filters.
Tighten belts.
Wash.
Replace Fire extinguishers

Further Work Required

Hazards or risk to health, safety and or environment:

☒ Fumes ☒ Guards ☒ Manual Handling ☒ Heat/Cold ☐ Fire Risk

Mechanic: J. Allen Signature: [Signature]

To be completed and filed with all previous Plant Service and Maintenance Records.



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EMAIL: wellamconstructions@wellam.com.au

SERVICE, MAINTENANCE or REPAIR REPORT

Date:	28.7.17	ID No:	100-56	Description:	2x 240-3
Machine Hours:	3600	Machine Kms:			

Routine maintenance:

As per manufacturer's specifications of handbook

☒ Yes

☐ No

Type of service:

☐ 250 hr.

☒ 500 hr.

☐ 1000 hr.

☐ 2000 hr.

☐ 10,000 km.

(for vehicles between 4.5 and 16 tonne
GMV complete the table over the page.)

Description of Work Performed.
Change engine oil / 1 Ltr Fuel x 2 filters SOS eng + hydro. check all levels. Grease, adj tracks, hot wash Adjust eng + A/C belts.

Further Work Required
N.A.

Hazards or risk to health, safety and or environment:

☐

Fumes

☐

Guards

☐

Manual Handling

☐

Heat/Cold

☐

Fire Risk

Mechanic:

John Dave

Signature:

[Signature]

To be completed and filed with all previous Plant Service and Maintenance Records.



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EMAIL: wellamconstructions@wellam.com.au

SERVICE, MAINTENANCE or REPAIR REPORT

Date: 1 / 4 / 17

ID No: 100.56 Description: HITACHI 240 (P HADZIS)

Machine Hours: 3,011 Machine Kms: —

Routine maintenance:

As per manufacturer's specifications of handbook

☒ Yes

☐ No

Type of service:

- ☐ 250 hr. ☐ 500 hr. ☒ 1000 hr. ☐ 2000 hr.
☐ 10,000 km. (for vehicles between 4.5 and 16 tonne
GMV complete the table over the page.)

Description of Work Performed.

ENGINE OIL + FILTER REPLACED

BOTH FUEL FILTERS REPLACED OUTR AIR FILTER REPLACED

BOTH CAB FILTERS REPLACED, BOTH FINAL DRIVE OILS REPLACED

RE PILOT FILTER REPLACED, PUMP TRANS OIL CHANGED

HYDRAULIC FILTER REPLACED, BELTS GOOD + ADJUSTED

Further Work Required

Hazards or risk to health, safety and or environment:

- ☒ Fumes ☒ Guards ☒ Manual Handling ☒ Heat/Cold ☒ Fire Risk

Mechanic: J. GREENSLADE

Signature: _____

To be completed and filed with all previous Plant Service and Maintenance Records.



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SERVICE, MAINTENANCE or REPAIR REPORT

Date:	14.12.16
ID No:	100.56
Description:	2x 240-3
Machine Hours:	2504
Machine Kms:	

Routine maintenance:

As per manufacturer's specifications of handbook

☒ Yes

☐ No

Type of service:

- ☐ 250 hr. ☒ 500 hr. ☐ 1000 hr. ☐ 2000 hr.
☐ 10,000 km. (for vehicles between 4.5 and 16 tonne
GMV complete the table over the page.)

Description of Work Performed.

Charge engine, 2 filters x2 oils.
" engine fuel x2 filters.
Adj. A/C belt.
Check all levels, oil, slow & hydro.
Replace hitch @ hinge.
Shim up hitch.
Bog & repair & paint counterweight
Hot wash off

Further Work Required

Hazards or risk to health, safety and or environment:

- ☐ Fumes ☐ Guards ☐ Manual Handling ☐ Heat/Cold ☐ Fire Risk

Mechanic:

John

Signature:

[Signature]

To be completed and filed with all previous Plant Service and Maintenance Records.



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SERVICE, MAINTENANCE or REPAIR REPORT

Date: 10 / 6 / 16

ID No: 100-56 Description: HITACHI 240 2x -3

Machine Hours: 1,534 Machine Kms: -

Routine maintenance:

As per manufacturer's specifications of handbook

☒ Yes

☐ No

Type of service:

☐ 250 hr. ☒ 500 hr. ☐ 1000 hr. ☐ 2000 hr.

☐ 10,000 km. (for vehicles between 4.5 and 16 tonne
GMV complete the table over the page.)

Description of Work Performed.

ENGINE OIL + FILTER REPLACED. OIL SAM. SAMPLE TAKEN
BOTH FUEL FILTERS REPLACED.
AIR FILTER REPLACED.
BOTH FINAL DRIVE OILS REPLACED. + OIL SAMPLES TAKEN
ALL LEVELS CHECKED. TOPPED UP HYDRAULIC OIL
BLOW OUT COOLERS
ADJUST BELTS CHECKED.

Further Work Required

Hazards or risk to health, safety and or environment:



Fumes



Guards



Manual Handling



Heat/Cold



Fire Risk

Mechanic:

J. GREENSLADE

Signature:

[Signature]

To be completed and filed with all previous Plant Service and Maintenance Records.



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SERVICE, MAINTENANCE or REPAIR REPORT

Date: 9 / 2 / 16

ID No: 100.56 Description: 24T HITACHI (P HARRIS)

Machine Hours: 1008 Machine Kms: —

Routine maintenance:

As per manufacturer's specifications of handbook

☒ Yes

☐ No

Type of service:

- ☐ 250 hr. ☐ 500 hr. ☒ 1000 hr. ☐ 2000 hr.
☐ 10,000 km. (for vehicles between 4.5 and 16 tonne
GMV complete the table over the page.)

Description of Work Performed.

ENGINE OIL + FILTER REPLACED.
AIR FILTER DOILT FILTER BOTH FUEL FILTERS REPLACED.
HYDRAULIC FILTER REPLACED. PUMP TRANS OIL REPLACED.
BOTH FINAL DRIVE OILS CHANGED CAB FILTER REPLACED
TOP UP WASHERS, BELTS GOOD.
GREASED, REMOVED CUTTING EDGE.
SIGN OIL GOOD.

Further Work Required

Hazards or risk to health, safety and or environment:

- ☒ Fumes ☒ Guards ☒ Manual Handling ☒ Heat/Cold ☒ Fire Risk

Mechanic: J. GREENSLADE Signature: [Signature]

To be completed and filed with all previous Plant Service and Maintenance Records.



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EMAIL: wellamconstructions@wellam.com.au

SERVICE, MAINTENANCE or REPAIR REPORT

Date: 15.10.15

ID No: 10056 Description: 2x 270-3

Machine Hours: 520 Machine Kms:

Routine maintenance:

As per manufacturer's specifications of handbook

☒ Yes

☐ No

Type of service:

☐ 250 hr. ☒ 500 hr. ☐ 1000 hr. ☐ 2000 hr.

☐ 10,000 km. (for vehicles between 4.5 and 16 tonne
GMV complete the table over the page.)

Description of Work Performed.

Change engine oil & filter.
Change air filter.
Top up all levels, change A/C
oil, milley, drain, refill L&R
fluids, adjust main fan belt.
Change fuel filters, fully hot
wash off, blow out cable filters.
Do oil samples

Further Work Required

Noticed premature wear on
wreng side of drive sprockets.
Improper direction travel.
Reported to operator.

Hazards or risk to health, safety and or environment:

☐ Fumes ☐ Guards ☐ Manual Handling ☐ Heat/Cold ☐ Fire Risk

Mechanic: John Signature: [Signature]

To be completed and filed with all previous Plant Service and Maintenance Records.