

Asset No. AS-384

PURCHASE DATE <u>20-10-2020</u>		DESCRIPTION <u>Cat Excavator</u>		REG No.	
MODEL <u>Cat 306 CR</u>	BUILT <u>2020</u>	OIL ENGINE		OIL DRUM	
SERIAL NO. <u>6G601357</u>		OIL HYDRAULICS		OIL TORQUE DRUM	
ENGINE NO. <u>C2.4 7LC7052</u>		OIL TRANSMISSION		COOLANT	
VIN NO. <u>CAT00306H6G601357</u>		OIL DIFFERENTIAL			
		OIL FINAL DRIVE			
FILTER ENGINE		TYRE FRONT		PRESSURE	
ENGINE BYPASS		TYRE REAR		PRESSURE	
FILTER HYDRAULICS					
AXLE BREATHER		BATTERY			
FILTER FAN					
FILTER TRANSMISSION					
FILTER AIR INNER	OUTER	SERVICE PERIOD		HOURS	
FILTER FUEL				Km	
FILTER FUEL SECONDARY					
WATER SEPARATOR		OTHER			
FILTER AIRCON					
FILTER CAB					
BELTS					
OTHER					



ENGINE

EQUIP NUM: AS384

SERIAL NUMBER: 6G601357

T010-56084-0204

SAMPLE SHIP TIME (days) : 5

BAYPORT PLANT HIRE PTY LTD

LOCATION: H VILLAGE

RECEIVED DATE: 25-Mar-26

CAT 306



Action Required

LOW VISCOSITY AND FUEL TESTS INDICATE A HIGH LEVEL OF FUEL DILUTION, AT YOUR EARLIEST CONVENIENCE, INSPECT ENGINE. POSSIBLE CAUSES OF FUEL DILUTION ARE : LEAKING INJECTORS, INJECTOR O-RINGS, INJECTOR FAILURES, FUEL TRANSFER PUMP AND ENGINE OVER FUELING, RESAMPLE AFTER INSPECTION OR ANY REPAIR.

Interp By: Barry Swindells

Interpreted On: 26-Mar-26

SAMPLE INFORMATION

	20-Mar-26	18-Sep-25	04-Apr-25	03-Feb-25
Sampled Date	20-Mar-26	18-Sep-25	04-Apr-25	03-Feb-25
Sample Id	T010-56084-0204	T010-55276-0517	T010-55099-0516	T010-56042-0407
Lab Date	25-Mar-26	03-Oct-25	09-Apr-25	11-Feb-26
Meter [Hr]	4463	4042	3770	4295
Comp Meter [Hr]	4463	4042	3770	4295
Meter On Fluid	168	272	191	253
Fluid Brand	MOBIL	ELF	ELF	MOBIL
Fluid Weight	15W-40	15W-40	15W-40	15W-40
Fluid Type	MODERN COMPLETE	PERF PRO 1000	PERF PRO 1000	DEMVAC MLP
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

OIL VISCOSITY AND FUEL TEST INDICATE FUEL DILUTION, MONITOR THE COMPARTMENT LEVEL, CHECK THE VISCOSITY GRADE OF THE OIL, RESAMPLE AT HALF THE RECOMMENDED INTERVAL.

For additional sample history, go to: S.O.S WEB

CONDITION / CONTAMINATION

		20-Mar-26	18-Sep-25	04-Apr-25	03-Feb-25
VISCOSITY (CENTISTOKES) ASTM D445					
V100	Viscosity at 100 C	10.18	11.78	12.27	10.88
VISCOSITY (CENTISTOKES) ASTM D445					
V40	Viscosity at 40 C	63.73	81.98	85.32	71.90

WEAR LEVELS / ADDITIVES

		20-Mar-26	18-Sep-25	04-Apr-25	03-Feb-25
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]					
Cu	Copper	1	1	1	1
Fe	Iron	4	6	4	5
Cr	Chromium	0	0	0	0
Al	Aluminum	2	2	2	2
Pb	Lead	1	0	0	0
Sn	Tin	0	1	0	0
Si	Silicon	2	2	2	2
Na	Sodium	2	3	4	3
K	Potassium	0	2	0	1
Mo	Molybdenum	59	88	93	80
Ni	Nickel	1	1	1	1
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Mn	Manganese	0	0	0	0
Cd	Cadmium	0	0	0	0
Ca	Calcium	1095	2009	2135	1935
P	Phosphorus	973	972	1065	927
Zn	Zinc	1120	1146	1214	1102
Mg	Magnesium	776	10	11	10
Ba	Barium	1	1	0	2
B	Boron	21	47	54	46

VISCOSITY INDEX

VI	Viscosity Index	147	137	140	141
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INFRARED (UFM) ASTM E2412

ST	Soot	3	10	2	5
OXI	Oxidation	13	15	14	11
SUL	Sulfate By-Product	19	20	18	15
NIT	Nitration	0	0	0	0

WATER - HOTPLATE

W	Water	N	N	N	N
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FUEL DILUTION (SCREEN)

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

PFC	Percent Fuel	>10.5	7.09	8.27	>10.5
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CLEANLINESS

		20-Mar-26	18-Sep-25	04-Apr-25	03-Feb-25
FERROUS DEBRIS					
PQI	PQ Index	0	0	0	0

HYDRAULIC SYSTEM

EQUIP NUM: AS384

SERIAL NUMBER: 6G601357

T010-55276-0305

SAMPLE SHIP TIME (days) : 10

BAYPORT PLANT HIRE PTY LTD

RECEIVED DATE: 03-Oct-25

CAT 306







Monitor Compartment

IRON LEVEL REMAINED HIGH; COPPER & SILICON LEVELS APPEAR IMPROVED ALTHOUGH STILL SLIGHTLY ELEVATED. THIS MAY BE ACCEPTABLE FOR ORIGINAL FILL OIL, LEVELS SHOULD SETTLE DOWN AFTER ONE OR TWO OIL CHANGES. INVESTIGATE AND EVALUATE COMPARTMENT CONDITION. CHECK FILTER MEDIUM AND SCREENS FOR WEAR MATERIAL AND CONTAMINATION. CHECK & ENSURE THIS COMPARTMENT OPERATING CORRECTLY. AS THE OIL HAS NOT BEEN CHANGED. WE WILL MONITOR ACTIVITY OVER THE NEXT FEW SAMPLES. ALL OTHER TEST RESULTS APPEAR ACCEPTABLE. AFTER INSPECTION RESAMPLE AT THE NEXT SERVICE INTERVAL TO RE-EVALUATE CONDITION.

Interp By: Hon Yin Tham
Interpreted On: 09-Oct-25

SAMPLE INFORMATION

				
	23-Sep-25	04-Apr-25	29-Oct-24	28-Dec-23
Sampled Date	23-Sep-25	04-Apr-25	29-Oct-24	28-Dec-23
Sample Id	T010-55276-0305	T010-55099-0404	T010-54309-0403	T010-54008-0303
Lab Date	03-Oct-25	09-Apr-25	04-Nov-24	08-Jan-24
Meter [Hr]	3053	3770	3579	3042
Comp Meter [Hr]	3053	3770	3579	3042
Meter On Fluid	3053	3770	3579	3042
Fluid Brand	CAT	CAT	CAT	CAT
Fluid Weight	10W	10W	10W	10W
Fluid Type	ADVANCE	ADVANCE	ADVANCE	ADVANCE
Fluid Change	N	N	N	N
Filter Change	Y	N	N	N
Make Up Fluid [L]	10		8	4
Total Fluid Added	24	14	14	6

PREVIOUS SAMPLE

IRON, COPPER & SILICON LEVELS REMAINED HIGH. THIS MAY BE ACCEPTABLE FOR ORIGINAL FILL OIL. LEVELS SHOULD SETTLE DOWN AFTER ONE OR TWO OIL CHANGES. INVESTIGATE AND EVALUATE COMPARTMENT CONDITION. CHECK FILTER MEDIUM AND SCREENS FOR WEAR MATERIAL AND CONTAMINATION. CHECK & ENSURE THIS COMPARTMENT OPERATING CORRECTLY. AS THE OIL HAS NOT BEEN CHANGED. WE WILL MONITOR ACTIVITY OVER THE NEXT FEW SAMPLES. ALL OTHER TEST RESULTS APPEAR ACCEPTABLE. AFTER INSPECTION RESAMPLE AT THE NEXT SERVICE INTERVAL TO RE-EVALUATE CONDITION.

For additional sample history, go to:

S.O.S WEB

CONDITION / CONTAMINATION

	23-Sep-25	04-Apr-25	29-Oct-24	28-Dec-23
VISCOSITY (CENTISTOKES) ASTM D445				
V40	41.39	40.79	40.84	40.90

WEAR LEVELS / ADDITIVES

	23-Sep-25	04-Apr-25	29-Oct-24	28-Dec-23
ELEMENTAL ANALYSIS (PPM) ASTM D6185 [OIL] / ASTM D6130 [COOLANT]				
Cu	16	19	18	15
Fe	52	59	57	53
Cr	1	1	1	1
Al	4	4	4	4
Pb	1	2	2	1
Sn	1	0	0	0
Si	13	16	16	14
Na	3	4	2	2
K	1	2	2	2
Mo	0	1	0	0
Ni	0	0	0	0
Ag	0	0	0	0
Ti	0	0	0	0
V	0	0	0	0
Mn	1	1	1	1
Cd	0	0	0	0
Ca	153	173	170	161
P	617	705	664	571
Zn	768	869	832	850
Mg	1	2	1	2
Ba	2	2	1	2
B	2	2	2	1

INFRARED (IFM) ASTM E2412

	23-Sep-25	04-Apr-25	29-Oct-24	28-Dec-23
OXI	5	6	5	5

WATER - HOTPLATE

	23-Sep-25	04-Apr-25	29-Oct-24	28-Dec-23
W	N	N	N	N

CLEANLINESS

	23-Sep-25	04-Apr-25	29-Oct-24	28-Dec-23
PARTICLE COUNT - ISO 11171:1999 reported per ISO 4406				
ISO	20/15/11	18/15/12	20/15/13	21/16/12
4µ	5096	1946	5318	17317
6µ	178	272	265	497
14µ	11	30	40	32

FERROUS DEBRIS

	23-Sep-25	04-Apr-25	29-Oct-24	28-Dec-23
PQI	6	7	8	8

VISUAL INSPECTION

	23-Sep-25	04-Apr-25	29-Oct-24	28-Dec-23
DEP	N	A1	N	B1
DEP2	N	M-D	N	DEB

FINAL DRIVE REAR LEFT

EQUIP NUM: AS384

SERIAL NUMBER: 6G601357

T010-55279-0426

SAMPLE SHIP TIME (days) : 18

BAYPORT PLANT HIRE PTY LTD

RECEIVED DATE: 06-Oct-25

CAT 306







Monitor Compartment

PQ & WEAR LEVELS APPEAR IMPROVED SLIGHTLY OIL IS DARK & SAMPLE IS UNSUITABLE FOR PARTICLE COUNT. MAY BE DUE TO RESIDUAL REMAINS OF PREVIOUS OIL. INVESTIGATE AND EVALUATE COMPARTMENT CONDITION. CHECK FOR LEAKS. 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. AFTER INSPECTION RESAMPLE AT THE NEXT SERVICE INTERVAL TO RE-EVALUATE CONDITION .

Interp By: Barry Swindells

Interpreted On: 10-Oct-25

SAMPLE INFORMATION

				
	18-Sep-25	29-Oct-24	25-Jul-24	28-Dec-23
Sampled Date	18-Sep-25	29-Oct-24	25-Jul-24	28-Dec-23
Sample Id	T010-55279-0426	T010-54309-0424	T010-54211-0646	T010-54008-0146
Lab Date	06-Oct-25	04-Nov-24	29-Jul-24	08-Jan-24
Meter [Hr]	4042	3579	3344	3042
Comp Meter [Hr]	4042	3579	3344	3042
Meter On Fluid	463	537	302	590
Fluid Brand	ELF	ELF	ELF	ELF
Fluid Weight	50	50	50	50
Fluid Type	TRACTELF KTR 4	TRACTELF KTR 4	TRACTELF KTR 4	TRACTELF KTR 4
Fluid Change	Y	Y	Y	Y
Filter Change	N	U	N	U
Make Up Fluid []	0			
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

PQ & IRON LEVELS APPEAR HIGH; SILICON & ALUMINIUM LEVELS APPEAR SLIGHTLY ELEVATED. OIL IS DARK & SAMPLE IS UNSUITABLE FOR PARTICLE COUNT. MAY BE DUE TO RESIDUAL REMAINS OF PREVIOUS OIL. INSPECT ANY MAGNETIC PLUG(S) FOR FERROUS METAL & CHECK OIL FOR OTHER ABNORMAL VISIBLE MATERIAL. 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. AFTER INSPECTION AND SERVICE, RESAMPLE AT HALF THE RECOMMENDED INTERVAL TO RE-EVALUATE CONDITION.

For additional sample history, go to:

S.O.S WEB

CONDITION / CONTAMINATION

	18-Sep-25	29-Oct-24	25-Jul-24	28-Dec-23
VISCOSITY (CENTISTOKES) ASTM D445				
V40	203.6	213.7	214.2	217.0

WEAR LEVELS / ADDITIVES

	18-Sep-25	29-Oct-24	25-Jul-24	28-Dec-23
ELEMENTAL ANALYSIS (PPM) ASTM D6185 [OIL] / ASTM D8130 [COOLANT]				
Cu Copper	3	3	5	18
Fe Iron	333	510	1511	5187
Cr Chromium	3	5	14	38
Al Aluminium	13	27	151	594
Pb Lead	1	1	1	0
Sn Tin	1	1	0	0
Si Silicon	77	143	682	3236
Na Sodium	3	2	6	40
K Potassium	1	4	15	97
Mo Molybdenum	1	2	2	4
Ni Nickel	0	1	3	0
Ag Silver	0	0	0	0
Ti Titanium	3	3	14	61
V Vanadium	0	0	0	2
Mn Manganese	2	3	8	30
Cd Cadmium	0	0	0	0
Ca Calcium	2818	3266	2412	2738
P Phosphorus	1008	990	688	726
Zn Zinc	990	922	775	549
Mg Magnesium	14	16	21	72
Ba Barium	2	0	0	3
B Boron	5	4	4	1

INFRARED (UFM) ASTM E2412

	18-Sep-25	29-Oct-24	25-Jul-24	28-Dec-23
OXI Oxidation	4	4	4	6

WATER - HOTPLATE

	18-Sep-25	29-Oct-24	25-Jul-24	28-Dec-23
W Water	N	N	N	P

CLEANLINESS

	18-Sep-25	29-Oct-24	25-Jul-24	28-Dec-23
PARTICLE COUNT - ISO 11171:1999 reported per ISO 4406				
ISO ISO Code Rating	DARK	DARK	DARK	H20/DARK

FERROUS DEBRIS

	18-Sep-25	29-Oct-24	25-Jul-24	28-Dec-23
PQI PQ Index	288	354	1545	16542

VISUAL INSPECTION

	18-Sep-25	29-Oct-24	25-Jul-24	28-Dec-23
DEP DEP	DARK	DARK	DARK	DARK
DEP2 DEP2	N	N	MAG	N

FINAL DRIVE REAR

RIGHT

T010-55276-0719

SAMPLE SHIP TIME (days) : 15

BAYPORT PLANT HIRE PTY LTD

RECEIVED DATE: 03-Oct-25

EQUIP NUM: AS384

CAT 306



Monitor Compartment

SERIAL NUMBER: 6G601357

Interp By: Barry Swindells

Interpreted On: 06-Oct-25

PQ & WEAR LEVELS APPEAR IMPROVED, TRACE AMOUNT OF VISIBLE MAGNETIC & NON-MAGNETIC FOREIGN DEBRIS PARTICLES FOUND. UNABLE TO TEST FOR LPD (15 MICRON) DUE TO THE DEPOSITS IN SAMPLE. MAY BE DUE TO RESIDUAL REMAINS OF PREVIOUS OIL. INVESTIGATE AND EVALUATE COMPARTMENT CONDITION. CHECK FOR LEAKS. CHECK & ENSURE THIS COMPARTMENT OPERATING CORRECTLY. AS THE OIL HAS BEEN CHANGED. WE WILL MONITOR ACTIVITY OVER THE NEXT FEW SAMPLES. AFTER INSPECTION RESAMPLE AT THE NEXT SERVICE INTERVAL TO RE-EVALUATE CONDITION.

SAMPLE INFORMATION

	18-Sep-25	29-Oct-24	25-Jul-24	28-Dec-23
Sampled Date	18-Sep-25	29-Oct-24	25-Jul-24	28-Dec-23
Sample Id	T010-55276-0719	T010-54309-0425	T010-54211-0647	T010-54008-0145
Lab Date	03-Oct-25	04-Nov-24	29-Jul-24	08-Jan-24
Meter [Hr]	4042	3579	3344	3042
Comp Meter [Hr]	4042	3579	3344	3042
Meter On Fluid	463	537	302	590
Fluid Brand	ELF	ELF	ELF	ELF
Fluid Weight	50	50	50	50
Fluid Type	TRACTELF KTR 4	TRACTELF KTR 4	TRACTELF KTR 4	TRACTELF KTR 4
Fluid Change	Y	Y	Y	Y
Filter Change	N	U	N	U
Make Up Fluid []	0			
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

PQ & IRON LEVELS APPEAR HIGH. CHROME AS WELL AS SILICON & ALUMINIUM LEVELS APPEAR SLIGHTLY HIGH. OIL IS DARK & SAMPLE IS UNSUITABLE FOR PARTICLE COUNT. DIRT MAY BE CONTRIBUTING TO HIGHER THAN NORMAL WEAR. LOCATE AND RECTIFY DIRT ENTRY. INSPECT ANY MAGNETIC PLUG(S) FOR FERROUS METAL & CHECK OIL FOR OTHER ABNORMAL VISIBLE MATERIAL. 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. AFTER INSPECTION AND SERVICE, RESAMPLE AT HALF THE RECOMMENDED INTERVAL TO RE-EVALUATE CONDITION.

For additional sample history, go to: [S.O.S WEB](#)

CONDITION / CONTAMINATION

		18-Sep-25	29-Oct-24	25-Jul-24	28-Dec-23
VISCOSITY (CENTISTOKES) ASTM D445					
V40	Viscosity at 40 C	199.9	213.6	213.4	205.4

WEAR LEVELS / ADDITIVES

		18-Sep-25	29-Oct-24	25-Jul-24	28-Dec-23
ELEMENTAL ANALYSIS (PPM) ASTM D6185 (OIL) / ASTM D6130 (COOLANT)					
Cu	Copper	3	4	4	12
Fe	Iron	478	1049	1225	2792
Cr	Chromium	4	10	11	22
Al	Aluminum	15	57	164	211
Pb	Lead	0	1	1	0
Sn	Tin	1	0	0	0
Si	Silicon	98	318	784	1056
Na	Sodium	4	3	6	12
K	Potassium	1	9	19	37
Mo	Molybdenum	2	3	2	3
Ni	Nickel	1	1	3	0
Ag	Silver	0	1	0	0
Ti	Titanium	2	6	15	18
V	Vanadium	0	0	0	1
Mn	Manganese	3	6	6	13
Cd	Cadmium	0	0	0	0
Ca	Calcium	2678	3210	2471	2811
P	Phosphorus	1064	953	702	740
Zn	Zinc	978	904	795	647
Mg	Magnesium	13	16	19	26
Ba	Barium	1	0	0	1
B	Boron	5	4	4	1

INFRARED (UFM) ASTM E2412

		18-Sep-25	29-Oct-24	25-Jul-24	28-Dec-23
OXI	Oxidation	4	4	4	4

WATER - HOTPLATE

		18-Sep-25	29-Oct-24	25-Jul-24	28-Dec-23
W	Water	N	N	N	P

CLEANLINESS

		18-Sep-25	29-Oct-24	25-Jul-24	28-Dec-23
PARTICLE COUNT - ISO 11171:1999 reported per ISO 4406					
ISO	ISO Code Rating	HIGH DEBRIS	DARK	DARK	H2O/DARK

FERROUS DEBRIS

		18-Sep-25	29-Oct-24	25-Jul-24	28-Dec-23
PQI	PQ Index	322	865	2017	6536

VISUAL INSPECTION

		18-Sep-25	29-Oct-24	25-Jul-24	28-Dec-23
DEP	DEP	A3	DARK	DARK	DARK
DEP2	DEP2	M-NM	N	MAG	N



RADIATOR

EQUIP NUM: AS384

SERIAL NUMBER: 6G601357

T010-55276-2001

SAMPLE SHIP TIME (days) : 10

BAYPORT PLANT HIRE PTY LTD

RECEIVED DATE: 03-Oct-25

CAT 306



No Action Required

Interp By: Hon Yin Tham

Interpreted On: 09-Oct-25

COOLANT CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

SAMPLE INFORMATION

	23-Sep-25	28-Dec-23	04-Oct-21	04-May-21
Sampled Date	23-Sep-25	28-Dec-23	04-Oct-21	04-May-21
Sample Id	T010-55276-2001	T010-54008-2007	T010-51284-2022	T010-51134-2045
Lab Date	03-Oct-25	08-Jan-24	11-Oct-21	14-May-21
Meter [Hr]	3053	3042	990	530
Comp Meter [Hr]	3053	3042		
Meter On Fluid	1000	3042	990	530
Fluid Brand	CAT	CAT	CAT	CAT
Fluid Weight				
Fluid Type	ELC	ELC	ELC	ELC
Fluid Change	N	N	N	N
Filter Change	N	N	N	N
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

NITRITE LEVEL (INHIBITOR) IS BELOW THE LOWER LIMIT. ENSURE COOLING SYSTEM IS OPERATING ACCORDING MANUFACTURERS SPECIFICATION. WE WILL CONTINUE TO MONITOR COOLANT CONDITION. ALL OTHER COMPARTMENT INDICATORS APPEAR ACCEPTABLE. RECOMMEND ADDING CAT ELC EXTENDER (PART No.119-5152) WHICH BOOSTS NITRITE AND OTHER ADDITIVE LEVELS. AFTER SERVICING RESAMPLE AT NEXT MAINTENANCE INTERVAL TO CHECK COOLANT CONDITION.

For additional sample history, go to: S.O.S WEB

ADDITIONAL CHARACTERISTICS

		23-Sep-25	28-Dec-23	04-Oct-21	04-May-21
ION CHROMATOGRAPHY (PPM) ASTM D4327					
CL	Chloride	3	13	14	13
SO4	Sulfate	33	182	93	50

CORROSION LEVELS/ CHEMISTRY

		23-Sep-25	28-Dec-23	04-Oct-21	04-May-21
ELEMENTAL ANALYSIS (PPM) ASTM D6185 [OIL] / ASTM D6130 [COOLANT]					
Cu	Copper	0	1	0	0
Fe	Iron	0	0	0	0
Pb	Lead	0	0	0	0
Sn	Tin	0	0	0	0
Al	Aluminum	1	1	0	4
Zn	Zinc	0	3	0	0
Na	Sodium	4148	3515	3088	3729
K	Potassium	10	61	0	102
Mo	Molybdenum	658	513	444	517

ADDITIONAL ANALYTES

		23-Sep-25	28-Dec-23	04-Oct-21	04-May-21
TH	Total Hardness	3	8	0	0

REFRACTIVE INDEX

		23-Sep-25	28-Dec-23	04-Oct-21	04-May-21
GL	Glycol (%)	48	50	51	51
FP	Freeze Point (°C)	-34	-37	-38	-38
BP	Boil Point (°C)	107	107	107	107

pH

		23-Sep-25	28-Dec-23	04-Oct-21	04-May-21
pH	pH	8.0	7.4	8.5	8.9

CONDUCTIVITY (µS/cm)

		23-Sep-25	28-Dec-23	04-Oct-21	04-May-21
CON	Conductivity	3678	3160	4423	3171

PHYSICAL CHARACTERISTICS

		23-Sep-25	28-Dec-23	04-Oct-21	04-May-21
PHYSICALS					
Color	Color	orange	red	orange	red/light
App	Appearance	clear	clear	clear	clear
Odor	Odor	norm	norm	norm	norm
Oil	Oil	none	none	none	none
Foam	Foam	norm	norm	norm	norm
PAmt	Precip Amount	none	trace	none	trace
PApp	Precip Appearance	N/A	granular	N/A	granular
PCol	Precip Color	N/A	blk sol	N/A	blk sol
PProp	Precip Property	N/A	non-mag	N/A	non-mag

		23-Sep-25	28-Dec-23	04-Oct-21	04-May-21
ION CHROMATOGRAPHY (PPM) ASTM D4327					
NO2	Nitrite	551	127	46	29
NO3	Nitrate	63	107	192	67
GLO	Glycolate	333	125	247	115

ADDITIONAL ANALYTES

		23-Sep-25	28-Dec-23	04-Oct-21	04-May-21
MoO4	Molybdate	1096	855	740	862
BO3	Borate	0	0	0	1
SiO3	Silicate	22	29	17	17

AS384

DATE	FITTERS NAME	WORK DETAILS	
15-3-22	Phil	WORTHINGTON. 250 HR SERVICE AS FOR MAINT. CRUISE. INTERRUPTED BY RAIN - NOT ALL CIRCULING + INSPECTIONS COMPLETED.	1307 H
29-4-22	Phil	WORTHINGTON VANDAL COVERS DAMAGED - ATTEMPTED ENTRY. STRAIGHTEN - 3 CRUISES + MOUNTING BRACKET ABOVE WINDSCREEN. REPLACE SOME DAMAGED PINCH RUBBER	1413 H
2-7-22	Phil	MT. PLEASANT. 500 HR SERVICE COMPLETED AS FOR MAINT. CRUISE. CHANGED F/PRIME OILS. 30S x 4. ATTEMPT TO LOCATE COOLANT LEAK PUMP ABOVE LOWER HOSE CONNECTION 383 OALD FLANGE BOLTED TO FRONT COVER - UNABLE TO ACCESS LOWER BOLT AT/LOW COMPRESSOR MAY NEED TO BE MOVED TO CHECK OUT FLANGE.	1497 H
		COUNTERWEIGHT ADDITIONAL FITTED TO EXISTING C/W. WILL NEED TO MODIFIED AT MOUNT - CONTACT NOT MATCHING - 20 mm COMP L/H SIDE	B35585
		QUICK HITCH. REMOVED MOUNT PIN TO INSPECT - STARTING TO WEAR ADDED SHIMS EACH SIDE OF HITCH TO REDUCE SIDE CLEARANCE.	B35014
1-7-22	Dozer Wap	Went out to MT Pleasant and Weld the Tail Pipe back onto the Muffler	B35899
25-7-22	William Adams	Went out to MT Pleasant and Supply. fit New Updated Muffler	1585 HRS
30-7-22	Craig	Operator reported that quick hitch safety latch was not closing. Tested, clean and lubricated latch pivot and latch actuator piston, tested OK	1615 H
24-8-22	Craig	check and adjust fan belt. Top up coolant + tighten rad hose clamps, inspect for any leakage, none found.	1723 H
17-10-22	Phil	WORTHINGTON. 2000 HR SERVICE STARTED + NOT COMPLETED.	1912. H
5-1-23	Phil.	WORKSHOP COMPLETE 2000 HR SERVICE - FUEL, AIR, CAB + HYD FILTERS REPLACE BELTS, CHECK VALVE CLEARANCES. CHANGE ENG OIL + FILTER	2151 H
		COUNTERWEIGHT FITTED JULY 22. REMOVE + GRIND L/H MOUNT BOSS, TO REDUCE CLEARANCE BETWEEN ORIGINAL C/W. REAR VANDAL COVER CONTACTING CAMERA + REAR LIGHT CABLES.	

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DATE	FITTERS NAME	WORK DETAILS	
5-1-23	Phil CRAIG	Trim 20mm from Cuard. Install locating pins at base of Cuard to hold in position. Repair cables + protect with split conduit.	2151
11-1-22	Phil CRAIG	Quick Hitch. Removed + replaced with elite rotalock HT series tilting hitch. End of stick + H link. Replaced pins, bearings + seals, added arms + orings 9F4446 at bosses.	B37537 B37547
	HOZE IT	Hoses + Aux 2 shutoff valves supplied. Fabricated location plate end of stick to secure hitch hoses. Fabricated shroud holder to carry shroud right side of cab. Hydraulic system pressure tested Aux 2 - Pump max pressure 3565 PSI. Below elite specs - Max pressure 3625 PSI.	B37559
16-2-23	CRAIG	Check and adjust air cond belt, top up coolant and pressure test system, locate coolant leaks at water pump	2,296h
21-2-23	William Adams Peter Mcrae	Replaced leaking engine water pump and gasket under warranty.	2,320h
17-3-23	CRAIG	Top up coolant 500ml only. Turn cutting edge, fit new belts. Check the tilting quick for slow operation to the left. Checked pressure to each side, checked for return restriction. Found hitch stalling at full pump pressure. Found noise internally indicated hitch was bypassing. Follow fault up with elite hitches. Set AUX 2 FLOW to 10%, AUX 1 FLOW was 50%. Max pump pressure noted was 3100 PSI AUX 2 flow @ 10% will allow better tilt hitch control.	2413h B3841
20-4-23	CRAIG	Carried out 500 hour service as per CRAIG and check sheet Replaced bent RHS grab iron. Clean and lube vandle cover padlocks Straighten blade lift cyl guard. The tilting quick hitch was removed and sent back to ELITE ATTACHMENTS for repair	2,452 B37547 NEXT PAGE

DATE	FITTERS NAME	WORK DETAILS	
20.4.23	CRAIG	CONTINUED: due to the hitch tilt stopping and slowing to the left. Elite dismantled rotator, and found only minor marks on the seals. They reassembled the unit with new seals. We refitted the hitch and tested, seems OK.	2,452.
4-7-23	PHIL	H. VILLAGE. INDECO HAMMER FIT HAMMER - FOUND HOSES TOO SHORT. HOZE. IT SUPPLIED - 2 METRES, NEW MALE + FEMALE COUPLING. ADJUST AUX 1 FLOW TO 70%. DISCUSSED WITH HEATH CONFIRMED FLOW RATE OK. TEST OPERATION - OK.	2688 HA B39581
21.7.23	CRAIG	Check wiper fault found wiper arm loose on shaft, clean shaft splines, re fit adjust and tighten arm. Reposition washer jet. Clean concrete off windscreen with scraper.	2,762 h.
30.8.23	PHIL CRAIG	WASH MACHINE. COMPLETE 750 MK SERVICE IN FOR MOUNT. LUBRIC. CHANGED OIL/FILTER. 300 MM BUCKET REPAIRS TOOTH - NEW PINS WINDSCREEN - CLEAN OFF LENSATIC/SEUM, TIGHTEN WIPER ARM, TEMPORARY REPAIR TO WASHER JET - LOOSE ON ARM, LONG SCISSOR CRACK BOOM/STICK DIMENSIONS ADDED TO APPLICATIONS FORM FOR NEW CRACK	2869 HA B40079
9.11.23	PHIL	ASSET, DECALS DAMAGED STICKERS REPAIRED	B38817
21.12.23	CRAIG	ST. GERMAIN R/H TRACK REFIT, ADJUST BOTH. Fit new SWL Decals applicable to ELITE tilting hitch, change decal in cabin and weight limits on boom. Remove old decals for CAT hitch	2956 HA 3,041 h
22.12.23	PHIL	Weld on hose guide rings to hitch. B40908	3,041 h
27.12.23	CRAIG William Adams Heath	Flow test hyd circuit for AUX1 hydraulics, set Hammer selection to 70% flow 69 LPM. The Auger selection was set at 100% for a flow of 100 LPM. The grubs were set at 30% flow and set up as a thumb in the panel, NEXT PAGE	3,041 h

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DATE	FITTERS NAME	WORK DETAILS	
27-12-23	CRAIG / HEATH William Adams.	to give a flow of 30 LPM approx. The AUX 1 line relief valves were set at 3000 psi to protect the grobs from damage. SEE SEPERATE WORK SHEET	3,041 B40223
28-12-23	PHIL	1000 ^{hr} SERVICE COMPLETED AS MAINTENANCE GUIDE, ADJUST VALVE CLOCKS, 5 x SAMPLES, BOOM CYL. GUARD. PREVIOUSLY BENT + REMOVED. MOUNT PLATE ON CYLINDER - WELD + CIRNO END SQUARE. INSTALL NEW GUARD, PLASTIC GUIDES + RETAINING WASHERS.	3042 B40170
		ENGINE BELTS - REPLACE BOTH ACT. + A/C ON BELTS.	B40906
		FUEL TANK SEDIMENT DRAIN COVER - MISSING. FIT NEW COVER.	B40906.
12-1-24	W/Adams. Jack.	WATER PUMP. LEAKING COOLANT. REPLACED PUMP + CASKET + COOLANT.	3043. B40911
14-5-24	CRAIG	Operator reported LOW COOLANT, inspected machine and found coolant on cabin floor. Removed trim and guards, located leak at LOWER HEATER CORE HOSE to core, tightened clamp and wiped away stains. Top up coolant. NEED TO RECHECK LEAK and other coolant connections in cabin. Inspect front crank seal oil leak.	3,240
4-6-24	CRAIG	Operator reported the engine stalled and would not start. checked fuel supply, found blockage at the 1G7206 filter. Pump out fuel tank and inspect for debris, found an amount of water, silt and mud in bottom of tank below drain point and all around tank. Washed out and sucked out until tank was clean. back blow suction tube and recheck. Change filters prime/refill tank, add biocide and test engine etc.	3 280, B4169,
4-7-24	CRAIG	Blade lift cyl leaking at rod end line, line loose, change burst seal, refit + test. Top up hyd oil.	3327 w.

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DATE	FITTERS NAME	WORK DETAILS	
25.7.24	CRAIG	Carry out 250 hour service as per O/MG and check sheet. SOS engine, and both final drives. Adjust A/C belt. Add Biocide to fuel tank. Replace mud bucket cutting edge.	3,344 B4090
19-8-24	PHIL	Mud Bucket Remove Two Weak Strips under floor. Itted face welds to ends of new strips + lower sides.	B340916
5.9.24	CRAIG.	Found LHS track loose, grease leaking around track adjuster rod. Reseal LHS track adjuster, seals worn, fit new rod due to rust. Remove and send DOC and DPF for cleaning. Refit to engine with new gaskets and 1 new mounting clamp ass. Replace the front crankshaft seal and sleeve due to leakage. Replace the 5296160 Lift cyl hose due to crushing damage at cylinder. Straighten lift cyl rod guard. Test fuel transfer / Lift pump for possible cause of engine oil dilution with fuel. OK. Change fuel inlet screen due to some debris in screen. Added biocide to fuel. Refit LHS joystick rubber boot. Protect engine wiring at flywheel housing. Replace bottom radiator hose due to damage from crankshaft seal leak. Change coolant due to SOS warning and coolant drained was dirty. Realign vandle cover pin at lower rear part of door, to prevent it hitting cabin.	3402 hr B4221 BA160 B4222
24-10-24	PHIL	BOT RIDGE COOLANT LEAKS BELOW RADIATOR. PRESSURISE SYSTEM COULD SEE DRIPPING INTO B/CUARD, TIGHTEN LOWER HOSE CLAMP, DRIPS STOPPED. CHECKED OTHER CLAMPS, TOPPED UP RADIATOR COOLANT	3564
29-10-24	PHIL	BOT RIDGE. 500 HR SERVICE COMPLETED AS PER MANT. GUIDE. OIL SAMPLES x 4, CHANGE A/DRIVE OILS.	3579
28.11.24	CRAIG	Replace FEMALE COUPLER on RHS of stick for attachments.	B42649 3625 hr

DATE	FITTERS NAME	WORK DETAILS	
28-1-25	PHIL	CHECKOVER MACHINE, FLUIDS + FUNCTIONS. CLEAN AIR FILTER, WASH MACHINE, CREMINE ALL POINTS	3652
		VANDAL COVERS. STRAIGHTEN + REPLACE PINCH RUBBER WHERE REQUIRED.	
21-1-25	CRAIG	Replaced out of date fire extinguisher with part from stock	3,650
4-4-25	PHIL	H. VILLAGE 250 HK SONNILE. COMPLETED AS PER MINT. GUIDE, CHANGED ENGINE OIL + FILTER, 80S ENG + HYD. ADJ. BELTS.	3770
		INSPECT TRACKS - BANDS BROKEN	
28-4-25	PHIL + CRAIG	FOLLOW UP REPAIRS AFTER SERVICE TRACKS BROKEN BANDS - REPLACE BOTH. BOOM CYL. CURED BENT. REMOVE + STRAIGHTEN, WELD/GRIND WORN LEG ON BARREL. ASSEMBLE WITH NEW PLASTIC TUBES, RETAINING BOLT, WASHER + SPRING, WASHER, LH MIRROR CAB DOOR PILLAR - MISSING, REPLACE COMPLETE MIRROR.	3814 3429
		HALLI WATER BUILD UP. CAB FLOOR. FOUND DRAIN TUBES - HOLDING WATER FROM LUMP TRAY SNIP DUCK BUC VALVES TO ALLOW SOME DRAINAGE - CONSTANT. CLEAN FLOOR / MAT.	
1-5-25	CRAIG	Swap hoses on 5TON HAMMER from YANMAR to CAT. Check adapter plate belts, grease hammer. Take to site, set valves and dash panel to Hammer. connect and test OK.	
1-7-25	CRAIG	Check settings in panel, found engine idle timer was "engbled". checked ET, found in configuration it was set at '15 mins. Took PSR, could find no idle time records.	3,943
10-9-25	CRAIG	The 5296159 LIFT CYL HOSE was broken with debris from the job. Removed took to PIRETER for repair. Refit, test, top oil off. Check machine for reported stall and no start. found fuel blockage at adapter fitting near in line filter, cut in line filter and pickup. Clean out adapter, fit new in line filter and back blow tank. TANK to be cleaned later.	4,021 B4372

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DATE	FITTERS NAME	WORK DETAILS	
8.9.25	CRAIG	Load up hammer, deliver to site, set machine for hammer work. Carried out <u>2000 hour service</u> . Some items not yet complete	4,042
23.9.25	CRAIG	Adjust A/C belt, repositioner. <i>A/C cond here away from condenser. Adjust tappets .008"</i> , service items. Remove lift cyl guard for repairs.	4,053
24.9.25	CRAIG	Replace damaged <i>Lift cyl guard</i> , guide sleeves and hardware. Complete 2000 hour service items.	4,053. B43775
2.10.26	CRAIG	Noted hydraulic oil leak from LHS PTO coupler check valve. Fitted new <i>male quick coupler</i> to LHS of stick - STUCCHI - M-FIRG 12A 5/8 SAE. Part from surplus stock.	4,246
3.2.26	CRAIG	Carried out 250 hour service as per OEMG and check sheet. Removed lift cyl guard for repairs. Removed a <i>MASTER PASSWORD 1111</i> from the MSS system. Tighten both bottom rad hose clamps due to possible leakage. Added bromide to fuel.	4,295
4.2.26	PHIL	Straightened lift cyl guard.	—
5.2.26	CRAIG	Fit new lift <i>cylinder guard rubbers</i> and refit guard.	4,301
20.3.26	CRAIG	Carry out 125 hour service. Change engine oil and filter, clean air filters x3. Change broken grease nipple, lower bog outswing boom grease both points. Change over <i>lift cyl guard</i> , fit spare and new sleeves. Test air cond 7°C. OK. SES engine oil.	4,463
18.5.26	CRAIG	Replaced leaking <i>PTO coupler</i> , <i>male nuts</i> of stick STUCCHI - M-FIRG 12A 5/8 SAE. Check hyd oil level OK.	4,663 B4456
26.5.26	CRAIG	Remove and replace <i>broken hose</i> to lift cyl head end. Hose remade by HOZE IT	4,690 B4460

