

PLANT MAINTENANCE RECORD

Last updated: 11/09/2017
Last reviewed: 11/09/2017

Asset No. AS-383

PURCHASE DATE <u>23-9-2020</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>6G601367</u>		OIL HYDRAULICS		OIL TORQUE DRUM	
ENGINE NO. <u>7LC7997</u>	<u>C2.4</u>	OIL TRANSMISSION		COOLANT	
VIN NO.		OIL DIFFERENTIAL			
		OIL FINAL DRIVE			
FILTER ENGINE		TYRE FRONT		PRESSURE	
ENGINE BYPASS		TYRE REAR		PRESSURE	
FILTER HYDRAULICS					
AXLE BREATHER		BATTERY <u>153-5656</u>			
FILTER FAN					
FILTER TRANSMISSION					
FILTER AIR INNER	OUTER	SERVICE PERIOD		HOURS	
FILTER FUEL				Km	
FILTER FUEL SECONDARY					
WATER SEPARATOR		OTHER <u>Seals for hitch pin protection on bushes 6F050</u>			
FILTER AIRCON					
FILTER CAB					
BELTS					
OTHER <u>Bow SHACKLE 6.5T</u>					

DATE	DETAILS	Km/Hours	DATE	DETAILS	Km/Hours
2-12-20	Phil. INITIAL 250HR SERVICE	277			
6-3-21	Phil 500HR SERVICE	560			
0-7-21	CRAIG 250 hour service	805			
1-1-22	CRAIG 1000 hour service	1,125			
3-2-22	Phil 250 HR SERVICE.	1293			
4-5-22	CRAIG 500 HR SERVICE	1,503 hrs			
0-8-22	CRAIG 250 hour service and Tappet Adj	1,893			
4-11-22	Phil. 2000 HR SERVICE.	2268			
1-3-23	CRAIG 500 HR SERVICE	2625			
1-6-23	Phil 1000 HR SERVICE	2997			
7-9-23	Phil 250 HR SERVICE	3332			
1-11-23	Phil 500 HR SERVICE	3577			
2-12-23	Phil 750 HR SERVICE	3732			
3-3-24	Phil. OIL & FILTER CHANGE - LEVEL OVERFULL	3910			
1-6-24	CRAIG 2000 hour service TAPPETS ADJUSTED	4,056			
1-9-24	CRAIG 250 hour service	4,265			
5-1-25	CRAIG 500 hour service	4,633			
5-1-25	CRAIG COOLANT CHANGED	4,633			
5-3-25	CRAIG 250 hour service	4,883			
3-5-25	Phil 1000 HR SERVICE	5026			
9-9-25	Phil/CRAIG 250 hour service	5,340			
7-11-25	CRAIG 500 hour service	5,572			
1-3-26	CRAIG 250 hour service	5,841			
0-4-26	CRAIG 2000 hour service	6,052			

ENGINE

EQUIP NUM: AS383

SERIAL NUMBER: 6G601367

CAT 306



Urgent Action Required

Interp By: Barry Swindells

Interpreted On: 07-May-26

T010-56126-0201

SAMPLE SHIP TIME (days) : 6

BAYPORT INDUSTRIES PTY LTD

RECEIVED DATE: 06-May-26

URGENT !!! LOW OIL VISCOSITY AND FUEL TEST INDICATE A HIGH LEVEL OF FUEL DILUTION, INSPECT ENGINE & INVESTIGATE THE CAUSE OF FUEL DILUTION. POSSIBLE CAUSES OF FUEL DILUTION ARE : LEAKING INJECTORS, INJECTOR O-RINGS, FAILURE OF INJECTORS, FUEL TRANSFER PUMP AND ENGINE OVERFUELING, RESAMPLE AFTER REPAIRS.

SAMPLE INFORMATION

	30-Apr-26	04-Mar-26	27-Nov-25	19-Sep-25
Sampled Date	30-Apr-26	04-Mar-26	27-Nov-25	19-Sep-25
Sample Id	T010-56126-0201	T010-56071-0502	T010-55338-0121	T010-55267-0235
Lab Date	06-May-26	12-Mar-26	04-Dec-25	24-Sep-25
Meter [Hr]	6052	5841	5572	5340
Comp Meter [Hr]	6052	5841	5572	5340
Meter On Fluid	211	269	232	314
Fluid Brand	MOBIL	MOBIL	ELF	ELF
Fluid Weight	15W-40	15W-40	15W-40	15W-40
Fluid Type	MODERN COMPLETE	MODERN COMPLETE	PERF PRO 1000	PERF PRO 1000
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Make Up Fluid []			0	0
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

URGENT!!! LOW OIL VISCOSITY AND FUEL TEST INDICATE A HIGH LEVEL OF FUEL DILUTION. INVESTIGATE SOURCE OF FUEL DILUTION. CHECK & ENSURE THIS COMPARTMENT OPERATING CORRECTLY. AS THE OIL HAS BEEN CHANGED. WE WILL MONITOR ACTIVITY OVER THE NEXT FEW SAMPLES. POSSIBLE CAUSES OF FUEL DILUTION ARE : LEAKING INJECTORS, INJECTOR O-RINGS, FAILURE OF INJECTORS, FUEL TRANSFER PUMP AND ENGINE OVERFUELING. RESAMPLE AFTER REPAIRS.

For additional sample history, go to:

[S.O.S WEB](#)

CONDITION / CONTAMINATION

	30-Apr-26	04-Mar-26	27-Nov-25	19-Sep-25
VISCOSITY (CENTISTOKES) ASTM D445				
V100 Viscosity at 100 C	8.258	8.390	9.705	9.796

VISCOSITY (CENTISTOKES) ASTM D445

V40 Viscosity at 40 C	45.99	49.05	59.96	62.56
-----------------------	-------	-------	-------	-------

VISCOSITY INDEX

VI Viscosity Index	157	147	146	140
--------------------	-----	-----	-----	-----

INFRARED (UFM) ASTM E2412

ST Soot	1	3	3	6
OXI Oxidation	22	21	20	16
SUL Sulfate By-Product	21	21	20	20
NIT Nitration	0	0	0	0

WATER - HOTPLATE

W Water	N	N	N	N
---------	---	---	---	---

FUEL DILUTION (SCREEN)

F Fuel	P	P	P	P
--------	---	---	---	---

FUEL DILUTION (%) ASTM D7593

PFC Percent Fuel	>10.5	>10.5	>10.5	>10.5
------------------	-------	-------	-------	-------

CLEANLINESS

	30-Apr-26	04-Mar-26	27-Nov-25	19-Sep-25
FERROUS DEBRIS				
PQI PQ Index	0	0	0	0

WEAR LEVELS / ADDITIVES

	30-Apr-26	04-Mar-26	27-Nov-25	19-Sep-25
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]				
Cu Copper	1	1	1	1
Fe Iron	3	4	3	5
Cr Chromium	0	0	0	0
Al Aluminum	1	1	1	2
Pb Lead	0	0	0	0
Sn Tin	0	0	0	1
Si Silicon	2	2	2	2
Na Sodium	2	2	3	4
K Potassium	0	1	1	1
Mo Molybdenum	49	53	76	80
Ni Nickel	0	1	0	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	869	988	1791	1844
P Phosphorus	835	850	899	936
Zn Zinc	972	974	1022	1042
Mg Magnesium	744	616	10	10
Ba Barium	0	4	2	2
B Boron	10	18	45	40



HYDRAULIC SYSTEM

EQUIP NUM: AS383

SERIAL NUMBER: 6G601367

T010-56126-0407

SAMPLE SHIP TIME (days) : 6

BAYPORT INDUSTRIES PTY LTD

RECEIVED DATE: 06-May-26

CAT 306



Monitor Compartment

IRON LEVEL APPEARS SLIGHTLY HIGH, AND HAS INCREASED. 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 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: 07-May-26

SAMPLE INFORMATION

	30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
Sampled Date	30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
Sample Id	T010-56126-0407	T010-55338-0305	T010-55148-0418	T010-55023-0202
Lab Date	06-May-26	04-Dec-25	28-May-25	23-Jan-25
Meter [Hr]	6052	5572	5026	4633
Comp Meter [Hr]	6052	5572	5026	4633
Meter On Fluid	6052	5572	5026	4633
Fluid Brand	CAT	CAT	CAT	CAT
Fluid Weight	10W	10W	10W	10W
Fluid Type	ADVANCED 10	ADVANCED 10	ADVANCE 10	ADVANCE 10
Fluid Change	Y	N	N	N
Filter Change	Y	N	N	N
Make Up Fluid [L]		10	6	
Total Fluid Added	35	35	25	19

PREVIOUS SAMPLE

OIL CONDITION SATISFACTORY. CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

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

CONDITION / CONTAMINATION

		30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
VISCOSITY (CENTISTOKES) ASTM D445					
V40	Viscosity at 40 C	40.96	41.04	41.00	40.40
INFRARED (UFM) ASTM E2412					
ST	Soot	0			
OXI	Oxidation	6	6	6	6
SUL	Sulfate By-Product	14			
NIT	Nitration	0			

WEAR LEVELS / ADDITIVES

		30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]					
Cu	Copper	14	12	14	13
Fe	Iron	50	44	44	38
Cr	Chromium	1	1	1	1
Al	Aluminum	3	3	4	3
Pb	Lead	2	2	2	2
Sn	Tin	0	1	0	0
Si	Silicon	8	7	7	6
Na	Sodium	3	4	4	2
K	Potassium	1	1	0	2
Mo	Molybdenum	1	0	0	0
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	1	0
Cd	Cadmium	0	0	0	0
Ca	Calcium	165	148	180	162
P	Phosphorus	601	598	750	679
Zn	Zinc	785	759	948	892
Mg	Magnesium	1	2	3	1
Ba	Barium	2	4	0	0
B	Boron	2	2	2	2

WATER - HOTPLATE

		30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
W	Water	N	N	N	N

CLEANLINESS

		30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
PARTICLE COUNT - ISO 11171:1999 reported per ISO 4408					
ISO	ISO Code Rating	17/12/9	18/14/10	17/15/12	19/16/12
4µ	4µ	1050	1554	757	4104
6µ	6µ	36	151	173	540
14µ	14µ	4	8	26	23

FERROUS DEBRIS

		30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
PQI	PQ Index	6	6	6	5

VISUAL INSPECTION

		30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
DEP	DEP	N	A1	A1	N
DEP2	DEP2	N	M-D	M-D	N



FINAL DRIVE REAR LEFT

EQUIP NUM: AS383

SERIAL NUMBER: 6G601367

T010-56126-0347

SAMPLE SHIP TIME (days) : 6

BAYPORT INDUSTRIES PTY LTD

RECEIVED DATE: 06-May-26

CAT 306



Urgent Action Required

URGENT !!! PQ & WEAR LEVELS INCLUDING SILICON ARE HIGH, OIL IS DARK & SAMPLE IS UNSUITABLE FOR PARTICLE COUNT. TRACE OR LOW LEVELS OF WATER DETECTED (0.1%). DIRT MAY BE CONTRIBUTING TO HIGHER THAN NORMAL WEAR. LOCATE AND RECTIFY DIRT ENTRY. 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. RECOMMEND SCHEDULE UNIT FOR INSPECTION ASAP. AFTER INSPECTION, RESAMPLE AT HALF THE RECOMMENDED INTERVAL TO RE-EVALUATE CONDITION.

Interp By: Barry Swindells

Interpreted On: 07-May-26

SAMPLE INFORMATION

	30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
Sampled Date	30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
Sample Id	T010-56126-0347	T010-55338-0333	T010-55148-0336	T010-55023-0245
Lab Date	06-May-26	04-Dec-25	28-May-25	23-Jan-25
Meter [Hr]	6052	5572	5026	4633
Comp Meter [Hr]	6052	5572	5026	4633
Meter On Fluid	211	232	393	378
Fluid Brand	ELF	ELF	ELF	ELF
Fluid Weight	50	50	50	50
Fluid Type	TRACTELF KTR4	TRACTELF KTR4	TRACTELF KTR4	TRACTELF KTR4
Fluid Change	Y	Y	Y	Y
Filter Change	N	N	NA	N
Make Up Fluid []				
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

PQ IS HIGH, WEAR LEVEL INCLUDING SILICON APPEAR HIGH, TRACE AMOUNT OF VISIBLE MAGNETIC & NON-MAGNETIC FOREIGN DEBRIS PARTICLES FOUND. DIRT MAY BE CONTRIBUTING TO HIGHER THAN NORMAL WEAR. LOCATE AND RECTIFY DIRT ENTRY. 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. UNABLE TO TEST FOR LPD (15 MICRON) DUE TO THE DEPOSITS IN SAMPLE. AFTER INSPECTION, RESAMPLE AT HALF THE RECOMMENDED INTERVAL TO RE-EVALUATE CONDITION.

For additional sample history, go to:

S.O.S WEB

CONDITION / CONTAMINATION

	30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
VISCOSITY (CENTISTOKES) ASTM D445				
V40 Viscosity at 40 C	216.8	215.7	211.9	198.7

WEAR LEVELS / ADDITIVES

	30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
ELEMENTAL ANALYSIS (PPM) ASTM D6185 [OIL] / ASTM D6130 [COOLANT]				
Cu Copper	8	1	1	3
Fe Iron	2718	476	223	724
Cr Chromium	25	5	2	6
Al Aluminum	321	45	3	91
Pb Lead	0	0	0	1
Sn Tin	0	2	0	0
Si Silicon	1721	299	28	464
Na Sodium	35	7	2	6
K Potassium	82	11	1	26
Mo Molybdenum	4	1	1	5
Ni Nickel	9	2	0	2
Ag Silver	0	0	0	0
Ti Titanium	29	5	0	7
V Vanadium	0	0	0	0
Mn Manganese	13	2	1	4
Cd Cadmium	0	0	0	0
Ca Calcium	2303	2206	2714	3100
P Phosphorus	1037	1020	1050	981
Zn Zinc	1192	1143	1055	960
Mg Magnesium	41	15	14	27
Ba Barium	3	3	0	0
B Boron	6	4	5	8

INFRARED (UFM) ASTM E2412

	30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
ST Soot	15			
OXI Oxidation	3	3	4	4
SUL Sulfate By-Product	22			
NIT Nitration	0			

WATER - HOTPLATE

	30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
W Water	T	N	N	N

CLEANLINESS

	30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
PARTICLE COUNT - ISO 11171:1999 reported per ISO 4406				
ISO ISO Code Rating	H2O/DARK	HIGH DEBRIS	DARK	DARK

FERROUS DEBRIS

	30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
PQI PQ Index	4560	2704	4782	4605

VISUAL INSPECTION

	30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
DEP DEP	DARK	A3	DARK	DARK
DEP2 DEP2	N	M-D	N	N



FINAL DRIVE REAR

RIGHT

T010-56126-0348

SAMPLE SHIP TIME (days) : 6

BAYPORT INDUSTRIES PTY

LTD

RECEIVED DATE: 06-May-26

EQUIP NUM: AS383

CAT 306



Urgent Action Required

SERIAL NUMBER: 6G601367

Interp By: Barry Swindells

Interpreted On: 07-May-26

URGENT !!! PQ & WEAR LEVELS INCLUDING SILICON ARE HIGH, OIL IS DARK & SAMPLE IS UNSUITABLE FOR PARTICLE COUNT. TRACE OR LOW LEVELS OF WATER DETECTED (0.1%). DIRT MAY BE CONTRIBUTING TO HIGHER THAN NORMAL WEAR. LOCATE AND RECTIFY DIRT ENTRY. 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. RECOMMEND SCHEDULE UNIT FOR INSPECTION ASAP. AFTER INSPECTION, RESAMPLE AT HALF THE RECOMMENDED INTERVAL TO RE-EVALUATE CONDITION.

SAMPLE INFORMATION

	30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
Sampled Date	30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
Sample Id	T010-56126-0348	T010-55338-0332	T010-55148-0337	T010-55023-0246
Lab Date	06-May-26	04-Dec-25	28-May-25	23-Jan-25
Meter [Hr]	6052	5572	5026	4633
Comp Meter [Hr]	6052	5572	5026	4633
Meter On Fluid	211	546	393	378
Fluid Brand	ELF	ELF	ELF	ELF
Fluid Weight	50	50	50	50
Fluid Type	TRACTELF KTR 4	TRACTELF KTR4	TRACTELF KTR 4	TRACTELF KTR 4
Fluid Change	Y	Y	Y	Y
Filter Change	N	N	NA	N
Make Up Fluid []			0	
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

URGENT !!! PQ & WEAR LEVEL INCLUDING SILICON APPEAR HIGH, TRACE AMOUNT OF VISIBLE MAGNETIC & NON-MAGNETIC FOREIGN DEBRIS PARTICLES FOUND. DIRT MAY BE CONTRIBUTING TO HIGHER THAN NORMAL WEAR. LOCATE AND RECTIFY DIRT ENTRY. 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. UNABLE TO TEST FOR LPD (15 MICRON) DUE TO THE DEPOSITS IN SAMPLE. AFTER INSPECTION, RESAMPLE AT HALF THE RECOMMENDED INTERVAL TO RE-EVALUATE CONDITION.

For additional sample history, go to:

S.O.S WEB

CONDITION / CONTAMINATION

	30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
VISCOSITY (CENTISTOKES) ASTM D445				
V40 Viscosity at 40 C	215.9	216.5	213.4	198.3

WEAR LEVELS / ADDITIVES

	30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
ELEMENTAL ANALYSIS (PPM) ASTM D5185 (OIL) / ASTM D6130 (COOLANT)				
Cu Copper	4	3	0	3
Fe Iron	1736	1090	112	811
Cr Chromium	15	10	1	7
Al Aluminum	146	83	2	57
Pb Lead	0	0	0	1
Sn Tin	0	1	0	0
Si Silicon	798	595	26	376
Na Sodium	17	12	2	4
K Potassium	37	23	1	16
Mo Molybdenum	3	2	1	7
Ni Nickel	5	3	0	2
Ag Silver	0	0	0	0
Ti Titanium	13	9	0	6
V Vanadium	0	0	0	0
Mn Manganese	8	5	1	4
Cd Cadmium	0	0	0	0
Ca Calcium	2334	2190	2641	3165
P Phosphorus	1058	1027	996	998
Zn Zinc	1216	1122	1028	977
Mg Magnesium	25	20	13	20
Ba Barium	2	3	0	0
B Boron	5	4	5	8

INFRARED (UFM) ASTM E2412

	30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
ST Soot	9			
OXI Oxidation	4	3	4	5
SUL Sulfate By-Product	20			
NIT Nitration	0			

WATER - HOTPLATE

	30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
W Water	N	N	N	N

CLEANLINESS

	30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
PARTICLE COUNT - ISO 11171:1999 reported per ISO 4406				
ISO ISO Code Rating	DARK	HIGH DEBRIS	HIGH DEBRIS	DARK

FERROUS DEBRIS

	30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
PQI PQ Index	4971	2714	240	2196

VISUAL INSPECTION

	30-Apr-26	27-Nov-25	23-May-25	15-Jan-25
DEP DEP	DARK	A3	A3	DARK
DEP2 DEP2	N	M-D	M-D	N



RADIATOR

EQUIP NUM: AS383

SERIAL NUMBER: 6G601367

CAT 306



No Action Required

Interp By: Hon Yin Tham

Interpreted On: 12-May-26

T010-56126-2004

SAMPLE SHIP TIME (days) : 6

BAYPORT INDUSTRIES PTY LTD

RECEIVED DATE: 06-May-26

COOLANT CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

SAMPLE INFORMATION

	30-Apr-26	23-May-25	07-Jun-24	24-Nov-22
Sampled Date	30-Apr-26	23-May-25	07-Jun-24	24-Nov-22
Sample Id	T010-56126-2004	T010-55148-2004	T010-54170-2006	T010-52332-2014
Lab Date	06-May-26	28-May-25	18-Jun-24	28-Nov-22
Meter [Hr]	6052	5026	4056	2268
Comp Meter [Hr]	6052	5026	4056	
Meter On Fluid	1419	393	4056	2268
Fluid Brand	CAT	CAT	CAT	CAT
Fluid Weight				
Fluid Type	ELC	ELC	ELC	ELC
Fluid Change	N	N	N	N
Filter Change	N	U	N	N
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

COOLANT CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

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

ADDITIONAL CHARACTERISTICS

	30-Apr-26	23-May-25	07-Jun-24	24-Nov-22
ION CHROMATOGRAPHY (PPM) ASTM D4327				
CL Chloride	6	4	14	15
SO4 Sulfate	59	44	260	253

ADDITIONAL ANALYTES

	30-Apr-26	23-May-25	07-Jun-24	24-Nov-22
TH Total Hardness	8	5	16	4

CORROSION LEVELS/ CHEMISTRY

	30-Apr-26	23-May-25	07-Jun-24	24-Nov-22
ELEMENTAL ANALYSIS (PPM) ASTM D6185 [OIL] / ASTM D8130 [COOLANT]				
Cu Copper	1	0	1	1
Fe Iron	0	0	0	0
Pb Lead	0	0	0	0
Sn Tin	0	0	0	0
Al Aluminum	1	0	1	1
Zn Zinc	0	0	7	4
Na Sodium	4762	3812	3452	3524
K Potassium	36	19	74	89
Mo Molybdenum	755	610	460	512

REFRACTIVE INDEX

	30-Apr-26	23-May-25	07-Jun-24	24-Nov-22
GL Glycol (%)	47	52	51	48
FP Freeze Point (°C)	-34	-41	-38	-34
BP Boil Point (°C)	106	108	107	107

pH

	30-Apr-26	23-May-25	07-Jun-24	24-Nov-22
pH pH	7.7	7.9	7.4	7.3

CONDUCTIVITY (µS/cm)

	30-Apr-26	23-May-25	07-Jun-24	24-Nov-22
CON Conductivity	3541	4228	4780	2637

PHYSICAL CHARACTERISTICS

	30-Apr-26	23-May-25	07-Jun-24	24-Nov-22
PHYSICALS				
Color Color	red	orange	red	orange
App Appearance	clear	clear	clear	clear
Odor Odor	norm	norm	abnorm	norm
Oil Oil	none	none	none	none
Foam Foam	norm	norm	norm	norm
PAmt Precip Amount	none	none	trace	trace
PApp Precip Appearance	N/A	N/A	granular	granular
PCol Precip Color	N/A	N/A	blk sol	blk sol
PProp Precip Property	N/A	N/A	non-mag	non-mag

ION CHROMATOGRAPHY (PPM) ASTM D4327

	30-Apr-26	23-May-25	07-Jun-24	24-Nov-22
NO2 Nitrite	473	466	35	25
NO3 Nitrate	101	56	165	35
GLO Glycolate	558	419	1044	1051

ADDITIONAL ANALYTES

	30-Apr-26	23-May-25	07-Jun-24	24-Nov-22
MoO4 Molybdate	1259	1017	766	853
BO3 Borate	2	0	0	0
SiO3 Silicate	28	20	21	23

AS-383

DATE	FITTERS NAME	WORK DETAILS	
3-9-20	Jordan Sullivan	Took The Machine Over	7 HRS
8-9-20	CASEY	Fit up a NEW LED BEACON, Fit up a SHEEP SKIN SEAT COVER to the operators seat. Supply 9 Bayport Padlocks For Fuel Cap and Vandal Covers.	BP21824
6-9-20	PHIL	BUCKETS x FOUR. WELD UP NUMBERS + HARDEN LEADING EDGES.	7 HRS.
7-10-20	PHIL	CRAW BRACKET FABRICATE FOR LINK CONNECTION TO A-TICK.	
1-10-20	PHIL	CRAW BRACKET CHECK FUNCTION, POSITION + WELD BRACKET TO A-TICK - Prep + Repaint. 2 x PINS ANCHORED BY T. SMITH ENR. B30738	53 HRS.
1-12-20	PHIL	BOTTOM RIGGE. INITIAL 250 HR SERVICE AS PER MAINT GUIDE. CHANGE ENGINE OIL + COOLANT. WRITE FILTER LIST + ORDER	277 HRS B31232
2-1-21	CRAIG	Check machine over, top engine oil and coolant.	278 HRS.
5-3-21	PHIL	Rix Rd. COMPLETE 500 HR SERVICE AS PER MAINT GUIDE. COOLANT + 4 OIL TANKS.	560 HRS.
2-4-2021	CASEY	SPIN THE MUD BUCKET CUTTING EDGE. USE NEW NUTS/BOLTS ON EDGE.	597 HRS.
DATE	FITTERS NAME	WORK DETAILS	
4-4-21	William Adams ^{HORR}	Went out to Rix Rd and found the OUTLET PIPE on the MUFFLER had broken away, removed the MUFFLER and Weld it up for a temporary repair, refit the Muffler ORDER NEW MUFFLER PARTS, to be fitted.	
5-5-21	William Adams ^{HORR}	Went out to Rix Rd and Supply + fit NEW MUFFLER PARTS, test All Working Ok	
		pitch sensor.	
9-7-21	CRAIG	505 engine for 250 hours, adjust fan belt top up coolant	804 HRS.
10-7-21	CRAIG	Carry out 250 hour service as per OVMG and check sheet	805 HRS
1-1-22	CRAIG	1000 hour service as per OVMG, and check sheet. Straighten lift cyl guard off machine. Change grease nipple at base of boom. Change cracked fan belt.	1125 B34405

AS383

DATE	FITTERS NAME	WORK DETAILS	
7.2.22	CRAIG	Operator reported <u>air conditioner was hot!</u> Inspected operation found poor air flow through ducting and pipe out of A/C freezing up and forming ice. Compressor was not cycling. Ran heater with A/C off air flow returned. Revisited the machine and fitted a new 564 2796 thermostat , air conditioner now tested and cycling 6°C - 8°C. Note seat, seat support, controls + all trim and ducts need to be removed to remove top of A/C unit and change part. Tighten heater hose clamps at heater core	1244 hr. B34536
8.2.22	Phil	Botanic Ridge. 250 hr Service completed Service in Per Mount. Runing. 308 ENG. Adjust Both Engine Belts	1292 hrs
4.5.22	CRAIG	Carried out 500 hour service as per O/MG and check sheet. Located slight coolant leak from top radiator hose at radiator, tightened clamp, recheck next service.	1,503 hr
9.7.22	William ^{Horn} Adams	Went out to Botanic Ridge and fit up S/H MUFFLER EX-AS-384 to keep the machine going until the New Muffler turns up.	
8.22	CRAIG	Inspect quick hitch safety latch, tested operation, found piston to operate safety latch partially seized, lubricated and cleaned, latch is now partially operational but needs to be dismantled and piston repaired	1,801 hr
0.8.22	CRAIG + PHIL	Carried out 250 hour service as per O/MG and check sheet. Inspected for coolant leaks none found. Partially washed machine, washed radiators. New cabin brush put in cabin. Adjusted the engine tappets . Replaced the main pin, bearing and seals from the joint at the end of stick to quick hitch. Removed quick hitch cyl, removed safety latch piston for hitch from cyl, cleaned up piston, and removed "bur" / damaged area causing piston to drag and not allow safety latch to return to closed position, tested OK.	1893 hr. B34907

AS383

DATE	FITTERS NAME	WORK DETAILS	
8-8-22	CRAIG	Refit quick hitch and installed rubber rings 6F8509 over pin bosses, for extra protection. Fitted & complete new bucket cyl ass 5641765 because rod chrome was damaged and a new rod was not yet available. Fitted an extra rear counterweight kit 5618285 . Fitted plastic sleeve to operators manual. Replaced the mud bucket cutting edge . Complete a final inspection.	1893 hrs B36423 B35983 B35584 B36423
9-8-22	William Adams	Fitted new muffler end cap assembly , it was an updated part to prevent breakage.	1893 hrs WARAHUTY
3-9-22	^{PETER MCCONE} William Adams	Went out to Botanic Ridge and Supply. Fit a New Front Crankshaft Seal	1973 HRS
4-11-22	Phil	Botanic Ridge. 2000HR NOVICE . COMPLETED 2000HR NOVICE IN PER L+M. CRUISE. VALVE ADJUSTMENT + RING CONK INSPECTION NOT DONE. REAR VANOOL COVER RUBBING, CAMERA + REAR LIGHT CABLES, TRIM 10MM LOWER EDGE OF COVER FOR CLEARANCE, COVER NEEDS POSITIONING PIN AT BOTTOM. W/SCREEN WAXER JET PLASTIC CLIP ON - LOOSE ON ARM - UNABLE TO PURCHASE SPARE PART, SECURED WITH ZIP TIE.	2268
2-12-22	^{RYNCE} William Adams	Went out to Botanic Ridge and fit up a S/H muffler end cap because the tail pipe was broken, they will order in a New Updated MUFFLER to be fitted when it comes in.	2385 HRS
5-1-23	CRAIG	Remove quick hitch cyl and clean up safety latch piston bore to prevent piston "sticking". Repair/protect wiring harness behind cabin damaged by wandle cover. Cut wandle cover and drill/pin bottom plate. Check for coolant leaks, top up coolant. Check engine oil, hyd oil and fuel. Replace bent hand rail on the front of cabin.	2,384 hrs B36423
1-1-23	^{Bav} William Adams	Went out to Botanic Ridge and Supply. Fit the New Updated Muffler End Cap which was ordered by Dave 20-12-22.	2398 HRS

DATE	FITTERS NAME	WORK DETAILS	
3-1-23	DARREN	Supplied new fuel cap to Adrian to replace broken cap due to fuel theft.	B37821
1-3-23	CRMC	500 HR SERVICE completed as per Maint Guide, 80S x 4 CHANGE F/DRAIN OIL. TRAVEL ALARM FAULTY REPAIRED WITH NIMRA 72608	2625 hr B38340
	PHIL	QUICK HITCH REMOVE CAT HITCH, REPLACE WITH TILTING HITCH ELITE ROTOLOCK 3/4 IN EL55RL45K0515. USED NEW PIN AT STICK MOUNT, REPAIRED BEARINGS + SPINDLES - H LINK LOWER END, FIT TO HITCH WITH ORIGINAL MOUNT PIN (MINOR WEAR)	B37989 B38058
	HORE K.	Made up hoses to suit, fitting Ball Valves - Aux 2 TEST OPERATION, Secure Hoses.	B38350
		MUD BUCKET weld Hard Face Welds - Wear Areas - Crescent Corners. VANDAL COVERS Clean Increase oil, Secure or Replace Pink Rubber where req'd. FINAL INSPECTION	
7-3-23	CRAG	Visit machine and checked main pump pressure, found approx 21,600kPa, approx 3100 PSI. Set AUX 2 to 10% flow and AUX 1 to 50% flow. AUX 2 at 10% will allow better tilt hitch control.	2,651 hrs
14-6-23	PHIL	BOT. RIDGE 1000 HR SERVICE as per MAINTENANCE GUIDE. REPLACED ENGINE BELTS. CHECKED TILT HITCH FOR DRIFT, OPERATOR REPORTED ANGLE CORRECTION REQUIRED - NOTHING OBSERVED, BUT HAD OIL NOT AT OPERATING TEMP.	2997
7-7-23	PHIL	St. Germain. R/H TRACK ADJUSTER - TRACK LOSING ADJUSTMENT WITHIN TWO DAYS - CHROME CAN BE SEEN AT LOWER PITCH RATE, FITTING TIGHT. READJUST + ORDER PARTS.	3062
9-7-23	PHIL	WSHOP. R/H TRACK ADJUSTER - REMOVE FROM FRAME. FOUND WIPER + PRESSURE SEAL DAMAGED FROM ASSEMBLY. Clean Parts,	3173

AS383

DATE	FITTERS NAME	WORK DETAILS	
			3173
9-7-23	PHIL	REASSEMBLE T/ADJUSTER WITH O RING, BACK UP RING + WASHER. ASSEMBLE + ADJUST. ALTERNATOR ADJUSTER CAPTIVE NUT WELD BROKEN - REPLACE BRACKET, RETADJUST BELT	B39607
		R/H WINDOW SCREEN - CONTACTING SWIVEL GUARD - MAGNET FITTED UNABLE TO CRIP CABIN WALL. REPLACED MAGNET WITH 10MM RUBBER PAD - CURED, NUTS + BOLTS 5MM. REPLACED C/LINE BRACKET MISSED AT SERVICE. ENGINE OIL OVERFILL - REMOVED 1.5 LITRES OF OIL TO CORRECT LEVEL.	B39518
9-23	CRAIG	Refit LHS track which had come off in a stockpile of rock. Adjust both tracks to spec's of 10-15mm sag.	3,316 hr
9-23	PHIL	BOTANIC RIDGE 250 HR SERVICE COMPLETED AS PER MAINT. GUIDE CHANGED LINING OR FILTER - EXTRA TO L+M GUIDE.	3332 B40146
11-23	PHIL	BOTANIC RIDGE 500 HR SERVICE COMPLETED AS PER MAINT. GUIDE CHANGED F/DRIVE OILS - EXTRA TO L+M GUIDE.	3577
4-11-23	CRAIG	Remove old SWL DECALS applicable to CAT quick hitch and apply new SWL DECALS suitable for ELITE hitch.	3,588
12-11-23	PHIL	BOTANIC RIDGE. MUD BUCKET LIFTING EDGE CHANGE	B40574 3636
2-12-23	CRAIG	Operator reported water coming from the A/Cond vent. Remove belly guard, found the "duck bill" drain valves for the A/Cond box were not draining, possibly sealed off. Disturb/clean/open valve with screwdriver, trim corner of both drain valves, drained water. Operator to report further problems.	3,700 hr
2-12-23	PHIL	W/SUP. COMPLETE 250 HR SERVICE. EXTRA TO L+M GUIDE - CHANGED ENGINE OIL / FILTER + F/DRIVE OIL, SOS REPORTS WARNINGS. BOOM CIL. GUARD; BENT REMOVE + STRENGTHEN. REASSEMBLE. FO - GRINDER WITH NEW PLASTIC GUIDES + RETAINING WASHERS.	3732 B340905

AS383

DATE	FITTERS NAME	WORK DETAILS	
2-12-23	PHIL	WELD on hose guard ring to hitch. B40908	3,732
7-12-23	CRAIG William Adams Heath.	Flow test hyd circuit for AUX1 hydraulics, set Hammer selection to 70% to achieve 68 LPM. The auger selection was set to 100% to get a flow of 96 LPM. The GRABS were set up as the thumb selection and set at 30% to get a flow of 27 LPM approx. The Aux 1 line relief valves were adjusted to get a line pressure of 3000 psi, to protect the grabs from damage. SEE SEPERATE WORK SHEET.	B40902
5-1-24	PHIL.	BUCKET TIPS. 300 mm BUCKET. REPLACE BOTH OUTER. B40905	3733
8-3-24	PHIL	BOT. RIDGE HIGH ENG. OIL LEVEL REPORTED, FOUND APPROX 30 MM ABOVE FILL MARK. CHANGED ENG OIL + FILTER. REMOVE PRIMING PUMP + USE HAND PUMP - NO LEAKAGE OBSERVED. INJECTORS + LINES EXTERNAL CHECKED SIS FOR INFO ON TRANSFER + INJECTOR PUMPS - NOTHING LISTED. OPERATORS REPORTED FREQUENT DPF REGENERATION BEINGS EACH DAY. FUEL INJECTED INTO CR. DURING WPK. STROKE FOR AFTER TREATMENT. DARRON REQUESTED HEATH TO CHECK CAT SYSTEM FOR POSSIBLE	3910
7-6-24	CRAIG PHIL	Carried out 4000 hour service as per OLMG and check sheet. Replaced 477 7729 fuel transfer pump as possible cause of fuel dilution of engine oil. FULL SOS TAKEN. Added Bioicide to fuel tank. Removed cutting edge and straighten mud bucket base edge , refit / turn cutting edge . Inspect machine for coolant leaks, tighten hose clamp on heater hose , bottom connection to heater core. Sleeve fitted to operators manual. Full machine degrease and wash. ADJUST TAPPETS. Removed belly guard under fuel tank, weld on nuts for drain plug access cover , straighten belly guard and paint. NEXT PAGE	4,056 B41377

Sender to keep
33DJE531061101000650802

AS383

DATE	FITTERS NAME	WORK DETAILS	
6.24	CRAIG	Straighten and clean randle covers, refit and cobletie pinch weld. Clean and lube pad locks. Remove lift cyl rod guard , straighten and refit, make guide sleeve. Adjust both tracks. Clean windows, final wash, final inspection, and clean buckets.	4,056
7.6.24	CRAIG	Operator reported excessive DPF REGEN EVENTS. Noted that it was attempting REGEN in workshop. Manual regen with ET to 27% was completed. Removed DPF and sent to D+D radiator service with the DOC, both were cleaned. Reset soot load and time interval to REGEN. Completed another manual Regeneration with ET, started at 0% and climbed to 27% when finished. Operator to report any further problems. Operator reported that the heater was not working at times. Checked for fault codes related to heater, none, status and operation check, all appears OK, cabin was heating up OK. NFA. Note, replaced air tube 4905899 into muffler outlet housing, taped out threads in housing.	4098 hr. B41699 B41886
9.24	CRAIG	Carried out 250 hour service as per OLMG, Adjust A/C and alternator belt. Change fuel filters due to debris in fuel inlet screen. Cut open oil filter for engine - NO METAL.	4,265 hr
5.1.25	CRAIG	Carried out 500 hour service as per OLMG and check sheet. Cut open oil filter, <u>small</u> specs of metal found only, OK. Added fuel biocide. Replaced engine water pump due to leakage. Change engine coolant at the time of draining due to SO5. Replaced damaged spiral wrap on the LH's hose to quick hitch through the H link. Replaced both TRACKS due to cracks opening up etc, original sprockets were used.	B4278. B40912 NEXT PAGE

DATE	FITTERS NAME	WORK DETAILS	
5.1.25	CRAIG	Replaced 1KG fire extinguisher in cabin, it was out of date,	4,633.
1.1.25	"	taken from stock. Carried out final inspection sheet.	
5.3.25	CRAIG	Carry out 250 hour service as per OUMG and checksheet	4,883.
		Adjust tracks. Cut open engine oil filter, no metal found.	
9.5.25	CRAIG	Jump start machine, it had a flat battery.	5,017 hr.
9.5.25	CRAIG	Replaced 1535656 battery due to age and start fault	5,019 hr.
		in the morning.	B43203
3.5.25	PHIL.	FORM. 1000 HR SERVICE COMPLETED as Per Maint. Guide.	5026.
		VALVE ADJUSTMENT NOT DONE.	
9.5.25	CRAIG	Operator reported the engine had stalled. Found in line	5,042 hr.
		fuel filter blocked removed and cleaned, prime system,	
		test OK. Fuel tank needs cleanout. Replaced broken	
		grease nipple in bucket cyl rod.	
-7-25	PHIL.	FORM FUEL TANK. DRAIN TANK + CLEAN OUT SLUDGE. INSPECT PRIMARY	5058 hr.
		FILTER FOR SEDIMENT - CLEAN. RETURNED 30 LT BUNK TO TANK. ADDED 40	
		LT FROM W/SHOP PLUS 100MM Biocide. UHF. REPLACED MISSING DOCKING	
		BUTTON ON MIC. HYD. OIL LEAK. - CONNECTION - STICK CYL-HEAD END -	
		HOSE FROM K/POST TO STEEL TUBE, REAR OF BOOM, NUT LOSE + O RING	
		DAMAGED. REPAIR O RING + REFIT PIPE CLAMPS.	
13-7-25	CASEY	FIT NEW MIRROR TO LH SIDE.	B43539 5,126 HRS
9.9.25	PHIL + CRAIG	Carried out 250 hour service as per OUMG and checksheet	5,340 hr.
		Cable tie washer jet to wiper arm. Changed final drive oils.	
2.9.25	CRAIG	Turn mud bucket cutting edge fit new belts B43757	5,343 hr.
		Reset monitor panel to enable Auto idle shutdown, shut	
		down occurs after 3-5 mins. Checked in ET configuration, could	
		not find anyway of changing timer length.	

AS383

DATE	FITTERS NAME	WORK DETAILS	
8-10-25	CRAIG	Check engine coolant temp , whilst working stroke and boom, found to be running @ 80-81°C. Adjust RHS enclosure door and lubricate latches because door was coming open	5,454h
7-11-25	CRAIG	Carried out 500 hour service as per OEMG and check sheet. Added Biocide to fuel tanks . Replaced a couple of grease nipples.	5,572h
7-12-25	CRAIG	Refit LHS track , track adjustment was loose. Looks like adjuster is leaking. Adjust/check both tracks.	5,611h
6-12-25	CRAIG	Removed LHS TRACK ADJUSTER , found worn/damaged seals. The chrome on the rod was rusted in one area. Fitted new seals and rod. Refit and adjust. Replaced engine TEMP REGULATOR as a possible cause of fuel dilution, tested engine temp running at 81°C.	5,650h B43994
2-3-26	CRAIG	Carried out 250 hour service as per OEMG and check sheet.	5,841h
25-3-26	CRAIG	Change over: lift cylinder rod guard and fit new sleeves because it was bent like a banana	5926h B44340
10-4-26	CRAIG	Carry out partial 2000/6000 hour service, as per OEMG and check sheet. Check all safety items. Change final drive oils. Fit new cutting edge . DPF may need to be done @ 7000 hours.	6,052h B44400
2-5-26	CASEY	REPLACED BOTH DAMAGED HYDRO PLUGS ON THE ELITE TILT HITCH, DUE TO OIL LEAK.	6,095HRS
16-5-26	PHIL + CRAIG	Prepare machine FOR SALE . Wash complete machine and clean out and detail cabin. Replaced faulty front window strut . Complete items of 2000 hour service that were unfinished, including hyd oil and filter. Grease. Check machine over.	6,189h B44520