

Bayport

PLANT MAINTENANCE RECORD

Asset No. **AB395 / R5426**

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

PURCHASE DATE	11/6/21	DESCRIPTION	352 NET GEN EXCAVATOR	REG No.	
MODEL	352	BUILT	2021		
SERIAL NO.	MGR20006	OIL ENGINE		OIL DRUM	
ENGINE NO.	F4E00719	OIL HYDRAULICS		OIL TORQUE DRUM	
VIN NO.	CA1003521MGR20006	OIL TRANSMISSION		COOLANT	
		OIL DIFFERENTIAL			
		OIL FINAL DRIVE			
FILTER ENGINE	500-0483	DRAIN KIT	354-5833	TYRE FRONT	PRESSURE
ENGINE BYPASS				TYRE REAR	PRESSURE
FILTER HYDRAULICS	RETURN - 590-9787 (x2), CASE DRAIN 093-7521				
AXLE BREATHER				BATTERY	
FILTER FAN					
FILTER TRANSMISSION					
FILTER AIR INNER	496-9846	OUTER	496-9845	SERVICE PERIOD	HOURS
FILTER FUEL					Km
FILTER FUEL SECONDARY	500-0480 (x2)	DRAIN KIT	563-7916		
WATER SEPARATOR	500-0481	DRAIN KIT	563-7917	OTHER	
FILTER AIRCON	500-0957			5854041	C.E.M module
FILTER CAB	580-5439				
BELTS					
OTHER					

DATE: 11/09/2017

DATE: 11/09/2017

DATE	DETAILS	Km/Hours	DATE	DETAILS	Km/Hours
3/9/21	ALBERT, WADAMS LUBE TRUCK, 500 HR SERVICE	599 HRS			
3/11/21	ALBERT, WADAMS LUBE TRUCK, 1000 HR SERVICE	997 HRS			
8/3/22	NATHAN MORRIS - WILLIAM ADAMS, 500 HR SERVICE	1489 HRS			
1/9/22	NATHAN MORRIS - WILLIAM ADAMS, 2000 HR SERVICE	1983 HRS			
3/17/22	BEN BAILEY, WILLIAM ADAMS, 500 HR SERVICE	2500 HRS			
1/11/22.	ALBERT, WADAMS LUBE TRUCK, 1000 HR SERVICE	3038 HRS			
25/1/23	NATHAN MORRIS - WILLIAM ADAMS, 500HR SERVICE	3458 HRS			
1/5/23	SCOTT, CARPENT CUT 2000 HR SERVICE.	4091 HRS			
29/7/23	PAUL HINES, CARPENT CUT 500 HR SERVICE	4978 HRS.			
11/11/23	PAUL HINES, SOGA VOGEL, 500HR SERVICE.	5026 HRS			
10/2/24	JAMES NICHOLS/BEN LEHMAN, 500HR SERVICE	5526 HRS.			
4-7-24	PAUL, 2000 HR SERV.	6234			
7-10-24	PAUL HYD OIL CHANGE/500 MK SERV	6552			
6-3-25	PAUL, PAUL, 1000 MK SERV.	7017			
9-10-25	GEORGE + PAUL 500 MK SERV	7495			
9-11-26	W/ADAMS, HYD OIL CHANGE - RAMP FIXINGS	6599			



ENGINE

EQUIP NUM: AS426

SERIAL NUMBER: MGR20006

CAT 352

No Action Required

Interp By: Barry Swindells

Interpreted On: 06-Nov-25

T010-55307-0516

SAMPLE SHIP TIME (days) : 5

BAYPORT PLANT HIRE PTY

LTD

LOCATION: S/VILLE

RECEIVED DATE: 03-Nov-25

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

SAMPLE INFORMATION

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
Sampled Date	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
Sample Id	T010-55307-0516	T010-55091-0532	T010-54284-0231	T010-54212-9001
Lab Date	03-Nov-25	01-Apr-25	10-Oct-24	30-Jul-24
Meter [Hr]	7495	7017	6552	6234
Comp Meter [Hr]	7495	7017	6552	6234
Meter On Fluid	478	465	318	708.0
Fluid Brand	ELF	ELF	ELF	ELF
Fluid Weight	15W-40	15W-40	15W-40	15W-40
Fluid Type	PERF HARMONY 100	PERF HARMONY 100	PERF HARMONY 100	PERF HARMONY 100
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Make Up Fluid []		4	4	40
Total Fluid Added	0	4	4	40

PREVIOUS SAMPLE

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

For additional sample history, go to:

S.O.S WEB

CONDITION / CONTAMINATION

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
VISCOSITY (CENTISTOKES) ASTM D445				
V100 Viscosity at 100 C	14.24	14.72	13.29	14.82

VISCOSITY (CENTISTOKES) ASTM D445

V40 Viscosity at 40 C	109.1	112.2	114.3	121.5
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VISCOSITY INDEX

VI Viscosity Index	132	135	112	125
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INFRARED (UFM) ASTM E2412

ST Soot	40	53	38	51
OXI Oxidation	17	20	18	25
SUL Sulfate By-Product	24	26	24	31
Sulfur Products	24	26	24	31
NIT Nitration	0	0	0	1

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 D7563

PFC Percent Fuel	2.92	3.06	2.24	2.35
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CLEANLINESS

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
FERROUS DEBRIS				
PQI PQ Index	0	0	0	0

WEAR LEVELS / ADDITIVES

29-Oct-25 26-Mar-25 07-Oct-24 24-Jul-24

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

Cu Copper	12	9	5	6
Fe Iron	24	31	20	35
Cr Chromium	1	1	0	1
Al Aluminum	3	3	2	2
Pb Lead	0	1	1	2
Sn Tin	0	1	1	0
Si Silicon	7	7	4	4
Na Sodium	5	6	7	9
K Potassium	2	0	0	1
Mo Molybdenum	96	104	110	94
Ni Nickel	0	1	0	0
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	2296	2399	2595	2247
P Phosphorus	1018	1113	1112	845
Zn Zinc	1205	1272	1402	1183
Mg Magnesium	12	12	15	52
Ba Barium	2	0	0	0
B Boron	18	17	30	24

HYDRAULIC SYSTEM

EQUIP NUM: AS426

SERIAL NUMBER: MGR20006

CAT 352



Monitor Compartment

Interp By: Hon YIn Tham

Interpreted On: 06-Nov-25

T010-55307-0606

SAMPLE SHIP TIME (days) : 5

BAYPORNT PLANT HIRE PTY

LTD

LOCATION: S.VILLE

RECEIVED DATE: 03-Nov-25

* Report that hydraulic pump & oil replaced at 6599 hours. CHROME LEVEL REMAINED SLIGHTLY ELEVATED. THIS MAY BE ACCEPTABLE DUE TO RECENT REPAIRS, 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.

SAMPLE INFORMATION

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
Sampled Date	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
Sample Id	T010-55307-0606	T010-55091-0304	T010-54284-0305	T010-54212-0106
Lab Date	03-Nov-25	01-Apr-25	10-Oct-24	30-Jul-24
Meter [Hr]	7495	7017	6552	6234
Comp Meter [Hr]	7495	7017	6552	6234
Meter On Fluid	896	458	318	6234.0
Fluid Brand	CAT	CAT	CAT	CAT
Fluid Weight	10W	10W	10W	10W
Fluid Type	HYDO ADVANCED	HYDO ADVANCED	HYDO ADVANCED	HYDO ADVANCED
Fluid Change	N	N	N	Y
Filter Change	N	U	N	Y
Make Up Fluid []	6		4	10
Total Fluid Added	10	4	4	10

PREVIOUS SAMPLE

* Report of case drain filter replaced. WEAR LEVELS & ISO PARTICLE COUNT RESULTS APPEAR IMPROVED SLIGHTLY, MAY BE DUE TO RESIDUAL REMAINS OF PREVIOUS OIL. INVESTIGATE AND EVALUATE COMPARTMENT CONDITION. CHECK FOR SCORED OR BENT CYLINDER ROD(S). SUGGEST CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. CHECK FOR LEAKS. 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

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
VISCOSITY (CENTISTOKES) ASTM D445				
V40 Viscosity at 40 C	39.91	40.78	40.72	39.43

WEAR LEVELS / ADDITIVES

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]				
Cu Copper	6	7	6	15
Fe Iron	17	17	21	45
Cr Chromium	9	9	11	24
Al Aluminum	1	1	1	2
Pb Lead	1	1	1	2
Sn Tin	1	0	0	0
Si Silicon	2	2	1	3
Na Sodium	8	7	7	14
K Potassium	1	0	1	2
Mo Molybdenum	1	1	0	1
Ni Nickel	0	0	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	1
Cd Cadmium	0	0	0	0
Ca Calcium	156	172	117	168
P Phosphorus	671	790	530	584
Zn Zinc	850	939	629	837
Mg Magnesium	1	1	1	2
Ba Barium	2	0	0	0
B Boron	3	1	2	2

INFRARED (UFM) ASTM E2412

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
OxI Oxidation	4	4	5	7

WATER - HOTPLATE

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
W Water	N	N	N	N

CLEANLINESS

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
PARTICLE COUNT - ISO 11171:1999 reported per ISO 4406				
ISO ISO Code Rating	16/14/11	16/14/10	18/15/11	18/15/11
4µ 4µ	371	636	1794	1374
6µ 6µ	101	117	315	171
14µ 14µ	15	6	15	14

FERROUS DEBRIS

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
PQI PQ Index	0	0	0	0

VISUAL INSPECTION

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
DEP DEP	N	N	A1	A1
DEP2 DEP2	N	N	DEB	M-D



SWING DRIVE LEFT

EQUIP NUM: AS426

SERIAL NUMBER: MGR20006

CAT 352

No Action Required

Interp By: Barry Swindells

Interpreted On: 06-Nov-25

T010-55307-0736

SAMPLE SHIP TIME (days) : 5

BAYPORT PLANT HIRE PTY LTD

LOCATION: S/VILLE

RECEIVED DATE: 03-Nov-25

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

SAMPLE INFORMATION

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
Sampled Date	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
Sample Id	T010-55307-0736	T010-55091-0335	T010-54284-0332	T010-54212-0144
Lab Date	03-Nov-25	01-Apr-25	10-Oct-24	30-Jul-24
Meter [Hr]	7495	7017	6552	6234
Comp Meter [Hr]	7495	7017	6552	6234
Meter On Fluid	478	783	318	1208.0
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	N	Y	N	Y
Filter Change	U	U	U	U
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

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

CONDITION / CONTAMINATION

		29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
VISCOSITY (CENTISTOKES) ASTM D445					
V40	Viscosity at 40 C	210.5	216.1	219.0	222.1

INFRARED (UFM) ASTM E2412

		29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
OXI	Oxidation	3	3	3	3

WATER - HOTPLATE

		29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
W	Water	N	N	N	N

WEAR LEVELS / ADDITIVES

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
ELEMENTAL ANALYSIS (PPM) ASTM D6185 [OIL] / ASTM D6130 [COOLANT]				
Cu	Copper	0	0	0
Fe	Iron	4	10	4
Cr	Chromium	0	0	0
Al	Aluminum	1	0	1
Pb	Lead	0	0	0
Sn	Tin	0	0	0
Si	Silicon	3	4	3
Na	Sodium	3	2	1
K	Potassium	1	0	0
Mo	Molybdenum	2	1	0
Ni	Nickel	0	0	0
Ag	Silver	0	0	0
Ti	Titanium	0	0	0
V	Vanadium	0	0	0
Mn	Manganese	0	0	0
Cd	Cadmium	0	0	0
Ca	Calcium	2256	2088	2031
P	Phosphorus	1076	1053	963
Zn	Zinc	1124	1211	1138
Mg	Magnesium	11	7	6
Ba	Barium	2	0	0
B	Boron	7	2	3

CLEANLINESS

		29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
PARTICLE COUNT - ISO 11171:1999 reported per ISO 4406					
ISO	ISO Code Rating	21/16	19/14	19/14	20/14
6µ	6µ	10358	4011	3348	6316
14µ	14µ	349	98	82	127

FERROUS DEBRIS

		29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
PQI	PQ Index	0	2	2	6

VISUAL INSPECTION

		29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
DEP	DEP	A1	A1	N	B1
DEP2	DEP2	M-D	DEB	N	DEB

SWING DRIVE RIGHT

EQUIP NUM: AS426

SERIAL NUMBER: MGR20006

CAT 352



Monitor Compartment

Interp By: Hon Yin Tham
Interpreted On: 08-Nov-25

T010-55307-0348

SAMPLE SHIP TIME (days) : 5





BAYPORT PLANT HIRE PTY LTD

LOCATION: S/VILLE

RECEIVED DATE: 03-Nov-25

THE OIL VISCOSITY @ 40C IS LOWER THAN THE TYPICAL SPECIFICATION FOR THE REPORTED OIL. INVESTIGATE AND EVALUATE COMPARTMENT CONDITION. CHECK IF OIL TYPE AND GRADE PROVIDED ARE CORRECT. MONITOR COMPARTMENT FOR RISING OIL LEVEL. 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.

SAMPLE INFORMATION

				
Sampled Date	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
Sample Id	T010-55307-0348	T010-55091-0336	T010-54284-0333	T010-54212-0145
Lab Date	03-Nov-25	01-Apr-25	10-Oct-24	30-Jul-24
Meter [Hr]	7495	7017	6552	6234
Comp Meter [Hr]	7495	7017	6552	6234
Meter On Fluid	478	783	318	1208.0
Fluid Brand	ELF	ELF	ELF	ELF
Fluid Weight	15W-40	50	50	50
Fluid Type	TRACTELF KTR 4	TRACTELF KTR 4	TRACTELF KTR 4	TRACTELF KTR 4
Fluid Change	N	Y	N	Y
Filter Change	NA	U	U	U
Make Up Fluid []	0			
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

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

CONDITION / CONTAMINATION

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
VISCOSITY (CENTISTOKES) ASTM D445				
V40 Viscosity at 40 C	193.2	216.6	218.5	221.9

INFRARED (UFM) ASTM E2412

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
OXI Oxidation	3	3	3	3

WATER - HOTPLATE

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
W Water	N	N	N	N

CLEANLINESS

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
PARTICLE COUNT - ISO 11171:1999 reported per ISO 4408				
ISO ISO Code Rating	18/14	18/12	18/13	18/13
6µ 6µ	1944	1378	1486	2175
14µ 14µ	82	40	45	55

FERROUS DEBRIS

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
PQI PQ Index	0	0	0	0

VISUAL INSPECTION

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
DEP DEP	A1	A1	N	B1
DEP2 DEP2	M-NM-D	DEB	N	DEB

WEAR LEVELS / ADDITIVES

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
ELEMENTAL ANALYSIS (PPM) ASTM D6185 [OIL] / ASTM D8130 [COOLANT]				
Cu Copper	0	0	0	0
Fe Iron	3	4	2	5
Cr Chromium	0	0	0	0
Al Aluminium	1	1	0	1
Pb Lead	0	1	0	0
Sn Tin	0	0	0	1
Si Silicon	4	4	2	2
Na Sodium	3	1	1	3
K Potassium	0	0	0	0
Mo Molybdenum	2	1	0	1
Ni Nickel	1	0	0	0
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	2402	2122	1762	2040
P Phosphorus	1050	1025	875	880
Zn Zinc	1170	1214	976	1088
Mg Magnesium	12	6	6	6
Ba Barium	2	0	0	0
B Boron	7	2	4	2

FINAL DRIVE REAR LEFT

EQUIP NUM: AS426

SERIAL NUMBER: MGR20006

CAT 352



No Action Required

Interp By: Barry Swindells

Interpreted On: 06-Nov-25

T010-55307-0734

SAMPLE SHIP TIME (days) : 5

BAYPORT PLANT HIRE PTY LTD

LOCATION: S/VILLE

RECEIVED DATE: 03-Nov-25

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

SAMPLE INFORMATION

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
Sampled Date	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
Sample Id	T010-55307-0734	T010-55091-0333	T010-54284-0334	T010-54212-0146
Lab Date	03-Nov-25	01-Apr-25	10-Oct-24	30-Jul-24
Meter [Hr]	7495	7017	6552	6234
Comp Meter [Hr]	7495	7017	6552	6234
Meter On Fluid	478	465	318	1208
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	U	U	U	U
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

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

CONDITION / CONTAMINATION

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
VISCOSITY (CENTISTOKES) ASTM D445				
V40 Viscosity at 40 C	211.7	210.2	221.6	216.8

INFRARED (UFM) ASTM E2412

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
OxI Oxidation	3	3	3	3

WEAR LEVELS / ADDITIVES

29-Oct-25 26-Mar-25 07-Oct-24 24-Jul-24

ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]		29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
Cu Copper	0	0	0	0	
Fe Iron	29	35	9	28	
Cr Chromium	0	0	0	0	
Al Aluminum	2	1	0	1	
Pb Lead	1	1	0	0	
Sn Tin	0	0	0	0	
Si Silicon	9	4	2	3	
Na Sodium	3	2	0	2	
K Potassium	1	0	0	0	
Mo Molybdenum	2	1	0	1	
Ni Nickel	0	0	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	2250	2164	1288	1901	
P Phosphorus	1105	1073	687	856	
Zn Zinc	1133	1215	756	1053	
Mg Magnesium	11	9	4	5	
Ba Barium	2	0	0	0	
B Boron	7	3	2	2	

WATER - HOTPLATE

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
W Water	N	N	N	N

CLEANLINESS

29-Oct-25 26-Mar-25 07-Oct-24 24-Jul-24

PARTICLE COUNT - ISO 11171:1999 reported per ISO 4406		29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
ISO ISO Code Rating	22/19	21/15	20/14	20/14	
6µ 6µ	38990	15665	7281	9690	
14µ 14µ	3521	225	142	135	

FERROUS DEBRIS

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
PQI PQ Index	15	20	8	18

VISUAL INSPECTION

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
DEP DEP	A1	A1	N	N
DEP2 DEP2	M-D	M-D	N	N



FINAL DRIVE REAR

RIGHT

T010-55307-0735

SAMPLE SHIP TIME (days) : 5

BAYPORT PLANT HIRE PTY

LTD

LOCATION: S/VILLE

RECEIVED DATE: 03-Nov-25

EQUIP NUM: AS426

CAT 352



No Action Required

SERIAL NUMBER: MGR20006

Interp By: Barry Swindells

Interpreted On: 06-Nov-25

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

SAMPLE INFORMATION

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
Sample Date	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
Sample Id	T010-55307-0735	T010-55091-0334	T010-54284-0335	T010-54212-0147
Lab Date	03-Nov-25	01-Apr-25	10-Oct-24	30-Jul-24
Meter [Hr]	7495	7017	6552	6234
Comp Meter [Hr]	7495	7017	6552	6234
Meter On Fluid	478	465	318	1208
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	U	U	U	U
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

For additional sample history, go to:

[S.O.S WEB](#)

CONDITION / CONTAMINATION

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
VISCOSITY (CENTISTOKES) ASTM D445				
V40 Viscosity at 40 C	207.0	214.4	220.8	226.8

INFRARED (UFM) ASTM E2412

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
OXI Oxidation	3	3	3	3

WEAR LEVELS / ADDITIVES

29-Oct-25 26-Mar-25 07-Oct-24 24-Jul-24

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

	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
Cu Copper	0	0	0	0
Fe Iron	22	22	12	27
Cr Chromium	0	0	0	0
Al Aluminum	2	0	0	1
Pb Lead	0	0	0	0
Sn Tin	1	0	1	0
Si Silicon	8	4	3	4
Na Sodium	3	1	3	2
K Potassium	1	0	1	0
Mo Molybdenum	2	2	0	1
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	0	0	0	0
Cd Cadmium	0	0	0	0
Ca Calcium	2204	2137	1910	1914
P Phosphorus	1057	1017	977	885
Zn Zinc	1124	1172	1124	1053
Mg Magnesium	12	10	6	5
Ba Barium	2	0	0	0
B Boron	7	3	3	2

WATER - HOTPLATE

W	Water	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
		N	N	N	N

CLEANLINESS

29-Oct-25 26-Mar-25 07-Oct-24 24-Jul-24

PARTICLE COUNT - ISO 11171:1999 reported per ISO 4408

ISO	ISO Code Rating	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
6µ	6µ	25273	7491	5831	9741
14µ	14µ	1081	122	162	193

FERROUS DEBRIS

PQI	PQ Index	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
		14	11	8	18

VISUAL INSPECTION

DEP	DEP	29-Oct-25	26-Mar-25	07-Oct-24	24-Jul-24
DEP1	DEP1	A1	A1	N	N
DEP2	DEP2	M-D	M-D	N	N

RADIATOR

EQUIP NUM: AS426

SERIAL NUMBER: MGR20006

CAT 352



Monitor Compartment

Interp By: Hon Yin Tham

Interpreted On: 07-Apr-25

T010-55091-2006

SAMPLE SHIP TIME (days) : 6





BAYPORT PLANT HIRE PTY LTD

LOCATION: LILYDALE

RECEIVED DATE: 01-Apr-25

COPPER LEVEL REMAINED SLIGHTLY ELEVATED, BUT HAS NOT INCREASED. GLYCOLATE LEVEL APPEARS SLIGHTLY HIGH, THIS MAY INDICATE OVERHEATING OR DEGRADING GLYCOL-ANTIFREEZE. CHECK OPERATING TEMPERATURE. CHECK FOR ANY SYSTEM WARNINGS OR OTHER INDICATORS OF OVERHEATING. ENSURE COOLING SYSTEM IS OPERATING ACCORDING MANUFACTURERS SPECIFICATION. WE WILL CONTINUE TO MONITOR COOLANT CONDITION. ALL OTHER COMPARTMENT INDICATORS APPEAR ACCEPTABLE. RESAMPLE AT THE NEXT SERVICE INTERVAL TO CHECK COMPARTMENT CONDITION.

SAMPLE INFORMATION

				
	26-Mar-25	24-Jul-24	21-Feb-24	11-Nov-23
Sampled Date	26-Mar-25	24-Jul-24	21-Feb-24	11-Nov-23
Sample Id	T010-55091-2006	T010-54212-2005	T010-54093-2031	T010-54010-2023
Lab Date	01-Apr-25	30-Jul-24	02-Apr-24	10-Jan-24
Meter [Hr]	7017	6234	5526.0	5026.0
Comp Meter [Hr]	7017	6234		
Meter On Fluid	7017.0	6234.0	5526.0	5026.0
Fluid Brand	CAT	CAT	CAT	CAT
Fluid Weight				
Fluid Type	ELC	ELC		
Fluid Change	N	N	N	N
Filter Change	N	Y	NA	NA
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

COPPER LEVEL REMAINED SLIGHTLY HIGH. NITRITE LEVEL (INHIBITOR) IS BELOW THE LOWER LIMIT. GLYCOLATE LEVEL APPEARS SLIGHTLY HIGH, THIS MAY INDICATE OVERHEATING OR DEGRADING GLYCOL-ANTIFREEZE. CHECK OPERATING TEMPERATURE. 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. RESAMPLE AT THE NEXT SERVICE INTERVAL TO CHECK COMPARTMENT CONDITION.

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

ADDITIONAL CHARACTERISTICS

	26-Mar-25	24-Jul-24	21-Feb-24	11-Nov-23
ION CHROMATOGRAPHY (PPM) ASTM D4327				
CL Chloride	32	31	32	43
SO4 Sulfate	135	159	145	206

CORROSION LEVELS/ CHEMISTRY

	26-Mar-25	24-Jul-24	21-Feb-24	11-Nov-23
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]				
Cu Copper	5	5	5	4
Fe Iron	1	1	1	0
Pb Lead	0	0	0	0
Sn Tin	0	0	0	0
Al Aluminum	0	1	0	0
Zn Zinc	1	3	3	2
Na Sodium	4326	4019	3988	3565
K Potassium	316	310	341	262
Mo Molybdenum	677	638	648	566

ADDITIONAL ANALYTES

PO4 Phosphate				126
TH Total Hardness	9	12	11	7

REFRACTIVE INDEX

GL Glycol (%)	51	52	52	52
FP Freeze Point (°C)	-38	-41	-41	-41
BP Boil Point (°C)	107	108	108	108

pH

pH pH	7.7	7.5	7.4	7.3
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CONDUCTIVITY (µS/cm)

CON Conductivity	4939	5067	4614	2770
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ION CHROMATOGRAPHY (PPM) ASTM D4327

NO2 Nitrite	384	18	6	31
NO3 Nitrate	462	593	583	838
GLO Glycolate	1461	1399	1169	1442

ADDITIONAL ANALYTES

MoO4 Molybdate	1128	1063	1080	943
BO3 Borate	0	3	0	2
SiO3 Silicate	87	85	85	69

PHYSICAL CHARACTERISTICS

	26-Mar-25	24-Jul-24	21-Feb-24	11-Nov-23
PHYSICALS				
Color Color	orange	red	red	red
App Appearance	clear	clear	clear	sl cloudy
Odor Odor	norm	norm	norm	norm
Oil Oil	none	none	none	none
Foam Foam	norm	norm	norm	norm
PAMt Precip Amount	none	trace	trace	none
PApp Precip Appearance	N/A	granular	granular	N/A
PCol Precip Color	N/A	blk sol	wht sol	N/A
PProp Precip Property	N/A	non-mag	non-mag	N/A