T120 WESTRAC NSW - 1 Westrac Drive Tomago, NSW 2322 AU

PHONE: 0249645201

Web: www.westrac.com.au Email: NSW.SOSLab@westrac.com.au

ENGINE **EQUIP NUM: DZ236** **SERIAL NUMBER: RJG00326**

CAT D10T

T120-56219-0119

SAMPLE SHIP TIME (days) : 6

EMECO_INTERNATIONAL_PTY_LTD_NS

EMECO_MAULES CREEK COAL

RECEIVED DATE: 07-Aug-26

No Action Required

Interp By: Darron Rowley

Interpreted On: 07-Aug-26

Unknown oil information and oil hours. All test results appear normal. Continue to sample at consistent intervals. For all sample information update requests please contact our EMC reception on 02 4964 5237. For technical enquiries regarding this evaluation; please contact Darron Rowley. Phone (02) 4964 5057. Email Darron.Rowley@westrac.com.au.

SAMPLE INFORMATION

Sampled Date	01-Aug-26	15-Jul-26	24-Jun-26	17-May-26
Sample Id	T120-56219-0119	T120-56204-0241	T120-56187-0214	T120-56142-0242
Lab Date	07-Aug-26	23-Jul-26	06-Jul-26	22-May-26
Meter [Hr]	66475.0	66584.0	66273.0	65946.0
Meter On Fluid		311.0	327.0	452.0
Fluid Brand				
Fluid Weight	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Fluid Type				
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

The PQ index appears slightly elevated. Suggest inspecting the used engine oil filter(s) / screens for debris, if not already done. All other test results appear normal. Continue to sample at consistent intervals. For all sample information update requests please contact our EMC reception on 02 4964 5237. For technical enquiries regarding this evaluation, please contact Darron Rowley. Phone (02) 4964 5057. Email Darron.Rowley@westrac.com.au.

For additional sample history, go to: Vision Link

ADDITIVES-WEAR LEVELS

		01-Aug-26	15-Jul-26	24-Jun-26	17-May-26
ELEMENTS (ppm) ASTM D5185					
Cu	Copper	2	2	4	3
Fe	Iron	16	26	24	30
Cr	Chromium	<1	1	1	1
Al	Aluminum	<1	<1	<1	<1
Pb	Lead	1	1	1	<1
Sn	Tin	<1	<1	<1	2
Si	Silicon	10	13	17	21
Na	Sodium	<1	<1	<1	<1
K	Potassium	<1	<1	<1	<1
Mo	Molybdenum	72	92	105	98
Ni	Nickel	<1	<1	<1	<1
Ag	Silver	<1	<1	<1	<1
Ti	Titanium	<1	<1	<1	<1
V	Vanadium	<1	<1	<1	<1
Mn	Manganese	<1	<1	<1	<1
Cd	Cadmium	0	0	0	0
Ca	Calcium	1884	1452	1681	1571
P	Phosphorus	1129	1123	1332	1256
Zn	Zinc	1297	1333	1520	1433
Mg	Magnesium	328	394	458	426
Ba	Barium	<1	<1	<1	<1
B	Boron	367	660	525	748
Sb	Antimony	0	0	0	0
Li	Lithium	<1	<1	<1	<1

CONDITION-CONTAMINATION

		01-Aug-26	15-Jul-26	24-Jun-26	17-May-26
OIL CONDITION					
ST	Soot	17	19	21	20
OXI	Oxidation	11	12	16	16
SUL	Sulfate By-Produc	17	19	22	24
NIT	Nitration	5	5	6	7
VISCOSITY (Centistokes)					
V100	Viscosity at 100 C	12.23	12.82	12.60	13.14
VISCOSITY (Centistokes)					
V40	Viscosity at 40 C	95.43	95.94	93.94	98.8
CRACKLE TEST					
W	Water	N	N	N	N
FUEL					
F	Fuel	N	N	N	N
FUEL CONTAMINATION (%)					
PFc	Percent Fuel	<2.0			

OIL CLEANLINESS

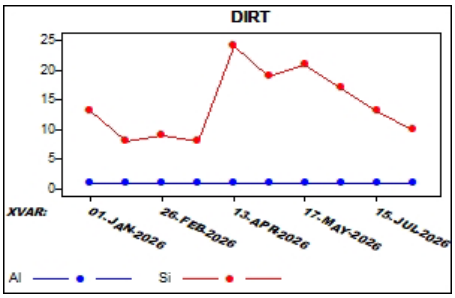
		01-Aug-26	15-Jul-26	24-Jun-26	17-May-26
PQI					
PQI	PQ Index	1	13	0	3

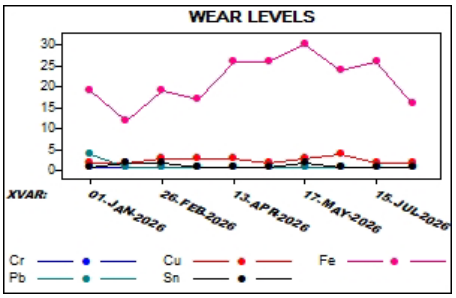
Notice: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or component

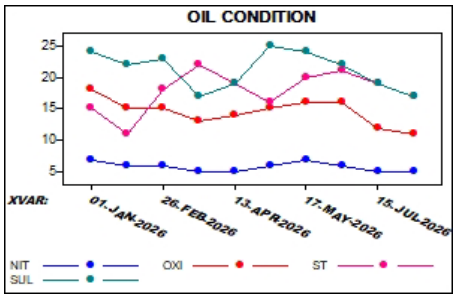
ENGINE
SERIAL NUMBER: RJG00326
EQUIP NUM: DZ236
CAT D10T

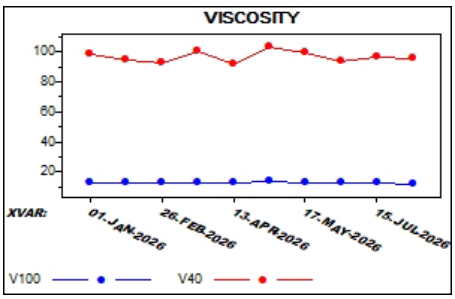
T120-56219-0119

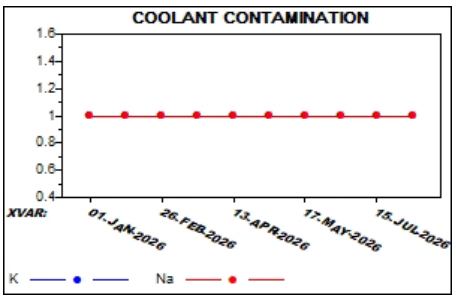
No Action Required











Report Comment

February 27, 2026, SOS Web functionality will transition to VisionLink®. Begin the transition to VisionLink now - Sign up or log in to vl.cat.com to update your settings, manage your fleet, configure your jobsites (groups) and notifications. Once the transition occurs on February 27, 2026, the following functionality will be available in VisionLink: submit samples, track samples, view and graph sample history, and view/download reports. SOS Web will no longer be available on March 2, 2026.

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FINAL DRIVE REAR RIGHT

EQUIP NUM: DZ236

CAT D10T

SERIAL NUMBER: RJG00326

T120-56219-2144

SAMPLE SHIP TIME (days) : 6

EMECO_INTERNATIONAL_PTY_LTD_NS

EMECO_MAULES CREEK COAL

RECEIVED DATE: 07-Aug-26

Monitor Compartment

Interp By: Darron Rowley

Interpreted On: 10-Aug-26

The oil viscosity (V40) appears to be reducing. Investigate possible oil transferring between compartments. All other test results appear normal. Continue to sample at consistent intervals. For all sample information update requests please contact our EMC reception on 02 4964 5237. For technical enquiries regarding this evaluation, please contact Darron Rowley. Phone (02) 4964 5057. Email Darron.Rowley@westrac.com.au.

SAMPLE INFORMATION

Sampled Date	01-Aug-26	28-Apr-26	19-Mar-26	29-Jan-26
Sample Id	T120-56219-2144	T120-56124-2508	T120-56086-2221	T120-56035-2413
Lab Date	07-Aug-26	04-May-26	27-Mar-26	04-Feb-26
Meter [Hr]	66475.0	65687.0	65186.0	64619.0
Meter On Fluid	788.0	501.0	567.0	1001.0
Fluid Brand	FUCHS	FUCHS	FUCHS	FUCHS
Fluid Weight	60	60	60	60
Fluid Type	TITAN GEAR FD	TITAN GEAR FD	TITAN GEAR FD	TITAN GEAR FD
Fluid Change	N	Y	Y	Y
Filter Change	N	N	Y	N
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

For the reported fluid hours. All test results for this sample are acceptable, continue to sample at the recommended interval. ** For all sample information update requests please contact our EMC reception on 02 4964 5237. For technical enquiries regarding this evaluation, please contact Nikayla Howe, nikayla.howe@westrac.com.au, Ph 02 4964 5056.

For additional sample history, go to: Vision Link

ADDITIVES-WEAR LEVELS

		01-Aug-26	28-Apr-26	19-Mar-26	29-Jan-26
ELEMENTS (ppm) ASTM D5185					
Cu	Copper	2	<1	<1	<1
Fe	Iron	41	20	7	21
Cr	Chromium	1	<1	1	<1
Al	Aluminum	<1	<1	<1	<1
Pb	Lead	<1	<1	<1	<1
Sn	Tin	<1	<1	<1	<1
Si	Silicon	18	12	15	28
Na	Sodium	24	<1	<1	<1
K	Potassium	1	<1	<1	<1
Mo	Molybdenum	<1	<1	<1	<1
Ni	Nickel	<1	<1	<1	<1
Ag	Silver	<1	<1	<1	<1
Ti	Titanium	<1	<1	<1	<1
V	Vanadium	<1	<1	<1	<1
Mn	Manganese	<1	<1	<1	<1
Cd	Cadmium	0	0	0	0
Ca	Calcium	3269	3197	3429	3990
P	Phosphorus	939	983	1056	1120
Zn	Zinc	990	851	923	1044
Mg	Magnesium	7	9	8	<1
Ba	Barium	<1	<1	<1	<1
B	Boron	<1	10	11	15
Sb	Antimony	0	0	0	0
Li	Lithium	<1	<1	<1	<1

CONDITION-CONTAMINATION

		01-Aug-26	28-Apr-26	19-Mar-26	29-Jan-26
OIL CONDITION					
OXI	Oxidation	10	6	6	3
SUL	Sulfate By-Produc	19	20	19	21
NIT	Nitration	6	5	5	4
VISCOSITY (Centistokes)					
V40	Viscosity at 40 C	258.4	298.9	305.9	300.6
CRACKLE TEST					
W	Water	N	N	N	N

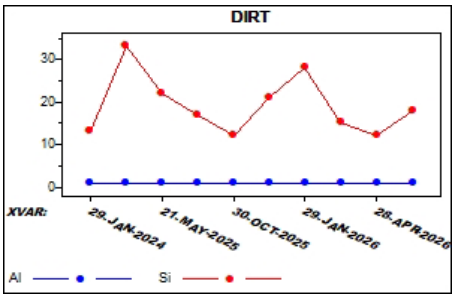
OIL CLEANLINESS

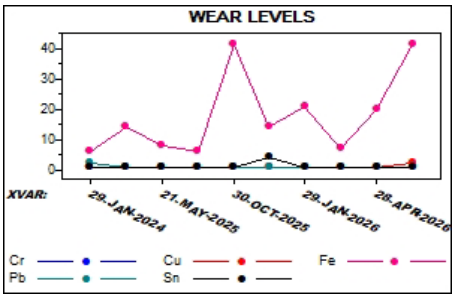
		01-Aug-26	28-Apr-26	19-Mar-26	29-Jan-26
PARTICLE COUNT					
ISO4	ISO4	23		22	22
ISO6	ISO6	21		19	20
ISO14	ISO14	17		16	17
4µ	4µ	67916		23097	26285
6µ	6µ	18959		4315	7874
10µ	10µ	2038		854	1967
14µ	14µ	689		409	1088
21µ	21µ	225		186	638
25µ	25µ	124		116	472
38µ	38µ	32		43	90
70µ	70µ	1		5	4
PQI					
PQI	PQ Index	13	14	1	4

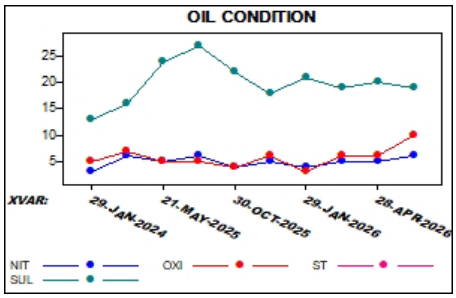
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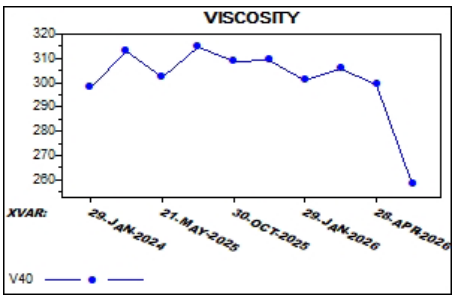
FINAL DRIVE REAR RIGHT
SERIAL NUMBER: RJG00326
EQUIP NUM: DZ236
CAT D10T

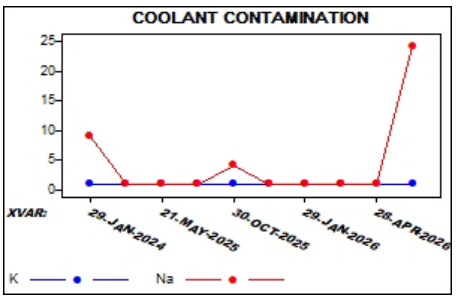
T120-56219-2144
Monitor Compartment











Report Comment

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PHONE: 0249645201

Web: www.westrac.com.au Email: NSW.SOSLab@westrac.com.au

TRANSMISSION POWER SHIFT

EQUIP NUM: DZ236 CAT D10T

SERIAL NUMBER: RJG00326

T120-56219-1123

SAMPLE SHIP TIME (days) : 6

EMECO_INTERNATIONAL_PTY_LTD_NS

EMECO_MAULES CREEK COAL

RECEIVED DATE: 07-Aug-26

Monitor Compartment

Interp By: Darron Rowley

Interpreted On: 10-Aug-26

Unknown oil information. The ISO oil cleanliness code ranges >6 and >14 micron are elevated. Suggest, inspecting filter media and/or screens for wear metal and contaminants, if not already done. All other test results appear normal. Continue to sample at consistent intervals. For all sample information update requests please contact our EMC reception on 02 4964 5237. For technical enquiries regarding this evaluation, please contact Darron Rowley. Phone (02) 4964 5057.

SAMPLE INFORMATION

Sampled Date	01-Aug-26	28-Apr-26	13-Apr-26	19-Mar-26
Sample Id	T120-56219-1123	T120-56124-1219	T120-56105-1128	T120-56086-1229
Lab Date	07-Aug-26	04-May-26	15-Apr-26	27-Mar-26
Meter [Hr]	66475.0	65687.0	65494.0	65186.0
Meter On Fluid	788.0	501.0	308.0	2059.0
Fluid Brand				
Fluid Weight	30	30	30	30
Fluid Type				
Fluid Change	N	Y	N	Y
Filter Change	Y	N	N	Y
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

The ISO cleanliness code for the 6 and 14 micron range are slightly high. Suggest changing the filters to help clean the system. All other test results appear to be acceptable. Continue to sample at recommended interval. ** For all sample information update requests please contact our EMC reception on 02 4964 5237. For technical enquiries regarding this evaluation, please contact Nikayla Howe, nikayla.howe@westrac.com.au, Ph 02 4964 5056.

For additional sample history, go to: Vision Link

ADDITIVES-WEAR LEVELS

		01-Aug-26	28-Apr-26	13-Apr-26	19-Mar-26
ELEMENTS (ppm) ASTM D5185					
Cu	Copper	9	1	1	11
Fe	Iron	7	1	2	8
Cr	Chromium	<1	<1	<1	<1
Al	Aluminum	<1	<1	<1	<1
Pb	Lead	2	<1	<1	1
Sn	Tin	<1	2	<1	1
Si	Silicon	7	11	12	8
Na	Sodium	<1	<1	<1	<1
K	Potassium	<1	<1	<1	<1
Mo	Molybdenum	<1	<1	<1	6
Ni	Nickel	<1	<1	<1	<1
Ag	Silver	<1	<1	<1	<1
Ti	Titanium	<1	<1	<1	<1
V	Vanadium	<1	<1	<1	<1
Mn	Manganese	<1	<1	<1	<1
Cd	Cadmium	0	0	0	0
Ca	Calcium	3858	3558	3724	3684
P	Phosphorus	1071	977	1080	1111
Zn	Zinc	1272	1194	1275	1243
Mg	Magnesium	23	28	32	42
Ba	Barium	<1	<1	<1	<1
B	Boron	<1	25	24	53
Sb	Antimony	0	0	0	0
Li	Lithium	<1	<1	<1	<1

CONDITION-CONTAMINATION

		01-Aug-26	28-Apr-26	13-Apr-26	19-Mar-26
OIL CONDITION					
OXI	Oxidation	3	7	7	7
SUL	Sulfate By-Produc	12	17	17	17
NIT	Nitration	3	4	4	5
VISCOSITY (Centistokes)					
V40	Viscosity at 40 C	98.25	91.39	90.41	93.87
CRACKLE TEST					
W	Water	N	N	N	N

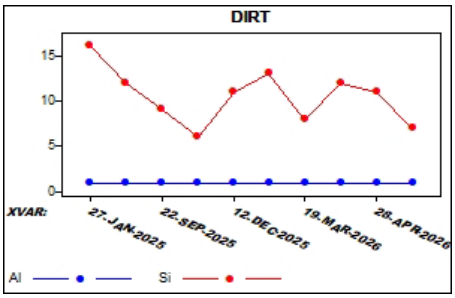
OIL CLEANLINESS

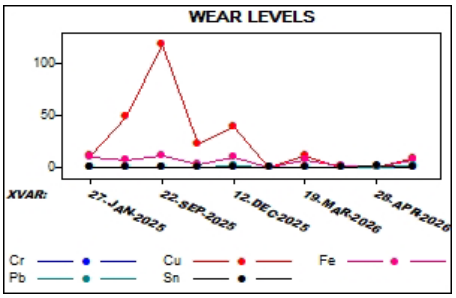
		01-Aug-26	28-Apr-26	13-Apr-26	19-Mar-26
PARTICLE COUNT					
ISO4	ISO4	22	23	23	21
ISO6	ISO6	19	22	22	18
ISO14	ISO14	16	20	19	16
PC Ra	PC Rating			-	
NAS	NAS			-	
4µ	4µ	23899	51639	67253	10385
6µ	6µ	3945	33007	27977	2188
10µ	10µ	920	11904	6980	629
14µ	14µ	435	5345	2738	393
21µ	21µ	165	1565	689	264
25µ	25µ	93	566	291	206
38µ	38µ	16	15	53	26
70µ	70µ	1	0	2	0
PCT	PCT			-	
PQI					
PQI	PQ Index	0	0	4	0

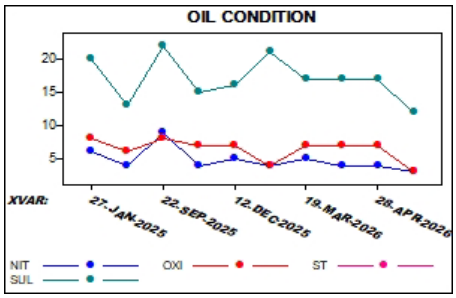
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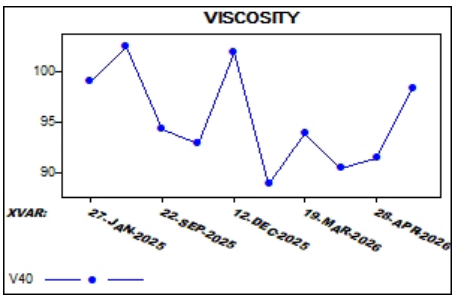
TRANSMISSION POWER SHIFT
SERIAL NUMBER: RJG00326
EQUIP NUM: DZ236
CAT D10T

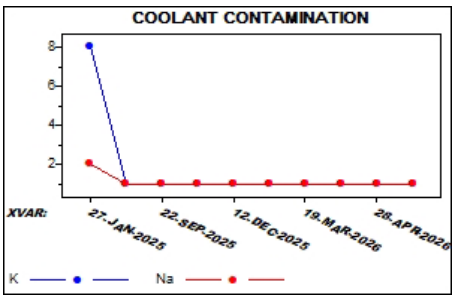
T120-56219-1123
Monitor Compartment











Report Comment

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PHONE: 0249645201

Web: www.westrac.com.au Email: NSW.SOSLab@westrac.com.au

FINAL DRIVE REAR LEFT **EQUIP NUM: DZ236** **SERIAL NUMBER: RJG00326**

CAT D10T

T120-56219-2204

SAMPLE SHIP TIME (days) : 6

EMECO_INTERNATIONAL_PTY_LTD_NS

EMECO_MAULES CREEK COAL

RECEIVED DATE: 07-Aug-26

Monitor Compartment

Interp By: Nikayla Howe

Interpreted On: 10-Aug-26

Oil information was not reported, please supply oil, brand, type and grade information. The iron is slightly high. Check magnetic plug for abnormal ferrous material, if not already done. All other test results appear to be acceptable. Continue to sample at recommended interval. ** For all sample information update requests please contact our EMC reception on 02 4964 5237. For technical enquiries regarding this evaluation, please contact Nikayla Howe, nikayla.howe@westrac.com.au, Ph 02 4964 5056.

SAMPLE INFORMATION

Sampled Date	01-Aug-26	28-Apr-26	19-Mar-26	29-Jan-26
Sample Id	T120-56219-2204	T120-56124-2504	T120-56086-2236	T120-56035-2401
Lab Date	07-Aug-26	04-May-26	27-Mar-26	04-Feb-26
Meter [Hr]	66475.0	65687.0	65186.0	64619.0
Meter On Fluid	788.0	501.0	567.0	1001.0
Fluid Brand				
Fluid Weight	60	60	60	60
Fluid Type				
Fluid Change	N	Y	Y	Y
Filter Change	N	N	Y	N
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

For the reported fluid hours. All test results for this sample are acceptable, continue to sample at the recommended interval. ** For all sample information update requests please contact our EMC reception on 02 4964 5237. For technical enquiries regarding this evaluation, please contact Nikayla Howe, nikayla.howe@westrac.com.au, Ph 02 4964 5056.

For additional sample history, go to: Vision Link

ADDITIVES-WEAR LEVELS

		01-Aug-26	28-Apr-26	19-Mar-26	29-Jan-26
ELEMENTS (ppm) ASTM D5185					
Cu	Copper	2	<1	<1	<1
Fe	Iron	122	10	18	38
Cr	Chromium	<1	<1	<1	<1
Al	Aluminum	<1	<1	<1	<1
Pb	Lead	<1	1	<1	<1
Sn	Tin	1	<1	<1	<1
Si	Silicon	17	11	17	17
Na	Sodium	59	<1	<1	<1
K	Potassium	<1	<1	<1	<1
Mo	Molybdenum	<1	<1	<1	<1
Ni	Nickel	<1	<1	<1	<1
Ag	Silver	<1	<1	<1	<1
Ti	Titanium	<1	<1	<1	<1
V	Vanadium	<1	<1	<1	<1
Mn	Manganese	<1	<1	<1	<1
Cd	Cadmium	0	0	0	0
Ca	Calcium	3292	3317	3728	3600
P	Phosphorus	939	1025	1153	1072
Zn	Zinc	881	887	985	961
Mg	Magnesium	7	9	9	9
Ba	Barium	<1	<1	<1	<1
B	Boron	<1	11	11	10
Sb	Antimony	0	0	0	0
Li	Lithium	<1	<1	<1	<1

CONDITION-CONTAMINATION

		01-Aug-26	28-Apr-26	19-Mar-26	29-Jan-26
OIL CONDITION					
OXI	Oxidation	12	7	6	9
SUL	Sulfate By-Produc	19	20	17	22
NIT	Nitration	7	5	5	5
VISCOSITY (Centistokes)					
V40	Viscosity at 40 C	281.2	272.4	297.0	305.1
CRACKLE TEST					
W	Water	N	N	N	N

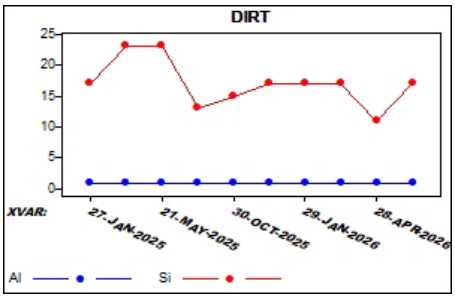
OIL CLEANLINESS

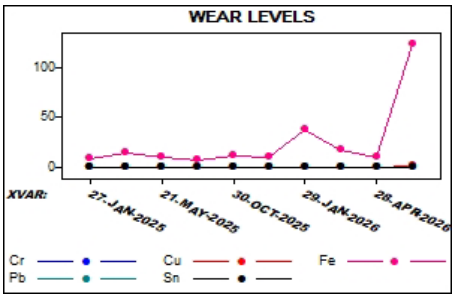
		01-Aug-26	28-Apr-26	19-Mar-26	29-Jan-26
PARTICLE COUNT					
ISO4	ISO4	23		22	
ISO6	ISO6	22		19	
ISO14	ISO14	17		16	
PC Ra	PC Rating				dark
4µ	4µ	68664		20621	
6µ	6µ	25388		3674	
10µ	10µ	3023		686	
14µ	14µ	936		406	
21µ	21µ	259		247	
25µ	25µ	130		197	
38µ	38µ	28		105	
70µ	70µ	3		12	
PQI					
PQI	PQ Index	54	1	3	16

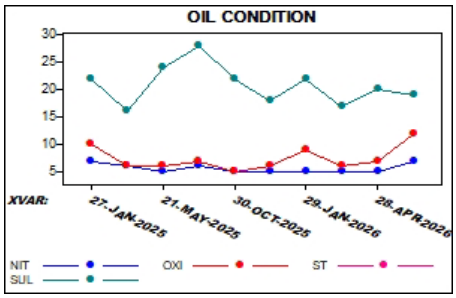
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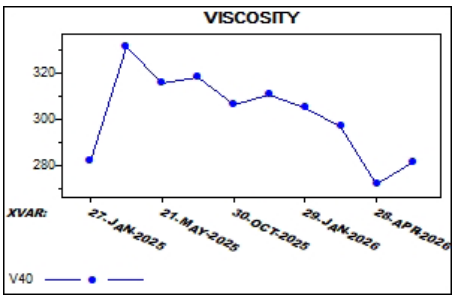
FINAL DRIVE REAR LEFT
SERIAL NUMBER: RJG00326
EQUIP NUM: DZ236
CAT D10T

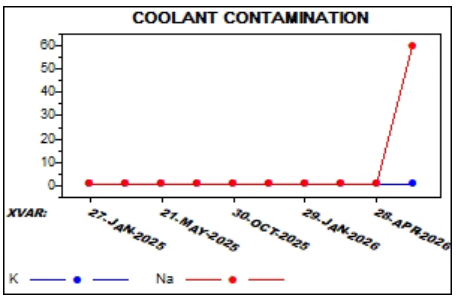
T120-56219-2204
Monitor Compartment











Report Comment

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T120 WESTRAC NSW - 1 Westrac Drive Tomago, NSW 2322 AU

PHONE: 0249645201

Web: www.westrac.com.au Email: NSW.SOSLab@westrac.com.au

HYDRAULIC SYSTEM **EQUIP NUM: DZ236** **SERIAL NUMBER: RJG00326**

CAT D10T

T120-56219-1229

SAMPLE SHIP TIME (days) : 6

EMECO_INTERNATIONAL_PTY_LTD_NS

EMECO_MAULES CREEK COAL

RECEIVED DATE: 07-Aug-26

Monitor Compartment

Interp By: Darron Rowley

Interpreted On: 10-Aug-26

The ISO oil cleanliness code ranges >6 and >14 micron are elevated. Suggest, inspecting filter media and/or screens for wear metal and contaminants, if not already done. All other test results appear normal. Continue to sample at consistent intervals. For all sample information update requests please contact our EMC reception on 02 4964 5237. For technical enquiries regarding this evaluation, please contact Darron Rowley. Phone (02) 4964 5057.

SAMPLE INFORMATION

Sampled Date	01-Aug-26	25-Jun-26	28-Apr-26	19-Mar-26
Sample Id	T120-56219-1229	T120-56187-1343	T120-56124-1211	T120-56086-1244
Lab Date	07-Aug-26	06-Jul-26	04-May-26	27-Mar-26
Meter [Hr]	66475.0	73126.0	65687.0	65186.0
Meter On Fluid	1289.0	7940.0	501.0	2059.0
Fluid Brand	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Fluid Weight	30	30	30	30
Fluid Type				
Fluid Change	N	N	N	Y
Filter Change	Y	Y	Y	Y
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

Oil information was not reported, please supply oil, brand, type and grade information. The ISO cleanliness code for the 6 and 14 micron range are slightly high. As the filters have reportedly been changed continue to monitor over future samples. All other test results appear to be acceptable. Continue to sample at recommended interval. ** For all sample information update requests please contact our EMC reception on 02 4964 5237. For technical enquiries regarding this evaluation, please contact Nikayla Howe, nikayla.howe@westrac.com.au, Ph 02 4964 5056.

For additional sample history, go to: Vision Link

CONDITION-CONTAMINATION

		01-Aug-26	25-Jun-26	28-Apr-26	19-Mar-26
OIL CONDITION					
OXI	Oxidation	4	4	7	7
SUL	Sulfate By-Produc	14	10	17	14
NIT	Nitration	3	2	4	4
VISCOSITY (Centistokes)					
V40	Viscosity at 40 C	88.43	90.54	86.44	81.7
CRACKLE TEST					
W	Water	N	N	N	N

ADDITIVES-WEAR LEVELS

		01-Aug-26	25-Jun-26	28-Apr-26	19-Mar-26
ELEMENTS (ppm) ASTM D5185					
Cu	Copper	1	<1	1	1
Fe	Iron	2	3	2	3
Cr	Chromium	<1	<1	<1	<1
Al	Aluminum	<1	<1	<1	<1
Pb	Lead	<1	<1	<1	1
Sn	Tin	1	<1	<1	<1
Si	Silicon	17	11	16	16
Na	Sodium	<1	<1	<1	<1
K	Potassium	<1	<1	<1	<1
Mo	Molybdenum	<1	<1	<1	3
Ni	Nickel	<1	<1	<1	<1
Ag	Silver	<1	<1	<1	<1
Ti	Titanium	<1	<1	<1	<1
V	Vanadium	<1	<1	<1	<1
Mn	Manganese	<1	<1	<1	<1
Cd	Cadmium	0	0	0	0
Ca	Calcium	3777	3906	3647	3945
P	Phosphorus	1026	1038	1013	1108
Zn	Zinc	1290	1251	1230	1327
Mg	Magnesium	22	18	30	38
Ba	Barium	<1	<1	<1	<1
B	Boron	<1	21	27	43
Sb	Antimony	0	0	0	0
Li	Lithium	<1	<1	<1	<1

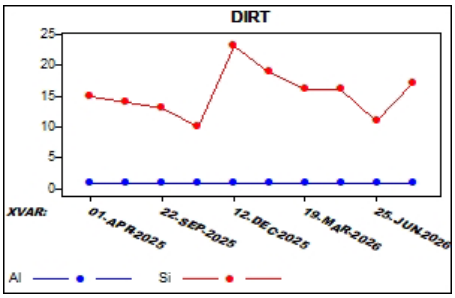
OIL CLEANLINESS

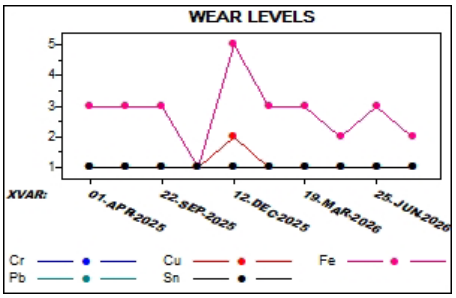
		01-Aug-26	25-Jun-26	28-Apr-26	19-Mar-26
PARTICLE COUNT					
ISO4	ISO4	21	24	19	19
ISO6	ISO6	19	23	17	17
ISO14	ISO14	16	19	15	16
4µ	4µ	13892	98387	3705	4493
6µ	6µ	4596	50425	724	1105
10µ	10µ	959	12995	278	503
14µ	14µ	353	4124	215	369
21µ	21µ	131	608	164	273
25µ	25µ	88	195	121	215
38µ	38µ	26	16	9	18
70µ	70µ	2	0	5	0
PQI					
PQI	PQ Index	0	0	0	0

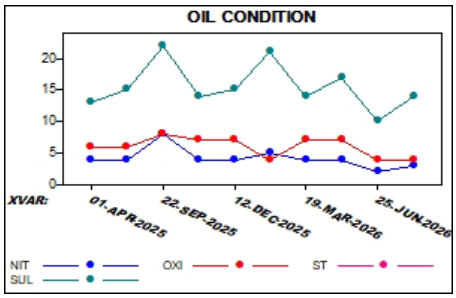
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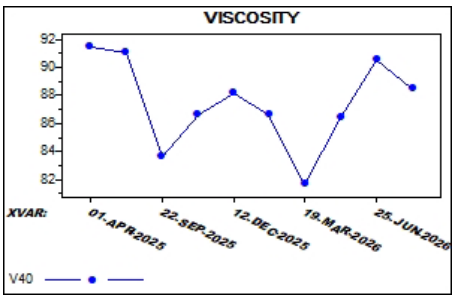
HYDRAULIC SYSTEM
SERIAL NUMBER: RJG00326
EQUIP NUM: DZ236
CAT D10T

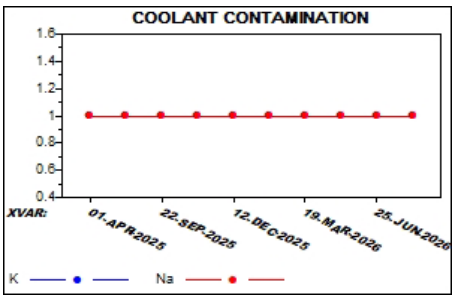
T120-56219-1229
Monitor Compartment











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