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: DZ234-DOZ847

CAT D11R

SERIAL NUMBER: 7PZ01505

T120-53292-1010

SAMPLE SHIP TIME (days) : 3

EMECO_INTERNATIONAL_PTY_LTD_NS

EMECO_SUNNYSIDE

RECEIVED DATE: 19-Oct-23

No Action Required

Interp By: Nikayla Howe

Interpreted On: 24-Oct-23

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.

SAMPLE INFORMATION

Sampled Date	16-Oct-23	14-Aug-23	27-Jul-23	20-May-23
Sample Id	T120-53292-1010	T120-53229-1022	T120-53208-0123	T120-53151-0416
Lab Date	19-Oct-23	17-Aug-23	27-Jul-23	31-May-23
Meter [Hr]	39835.0	39592.0	0	39095.0
Comp Meter [Hr]			0	
Meter On Fluid	243.0	39592.0	0	297.0
Fluid Brand				FUCHS
Fluid Weight	15W-40	15W-40	15W-40	15W-40
Fluid Type				TITAN CARGO
Fluid Change	Y	Y	U	Y
Filter Change	Y	Y	U	Y
Total Fluid Added	0	0	0	0

ADDITIVES-WEAR LEVELS

		16-Oct-23	14-Aug-23	27-Jul-23	20-May-23
ELEMENTS (ppm) ASTM D5185					
Cu	Copper	12	11	9	14
Fe	Iron	28	26	15	32
Cr	Chromium	<1	<1	<1	1
Al	Aluminum	<1	<1	2	3
Pb	Lead	5	5	3	7
Sn	Tin	<1	<1	<1	1
Si	Silicon	9	8	6	7
Na	Sodium	1	2	4	5
K	Potassium	<1	<1	<1	<1
Mo	Molybdenum	69	73	73	94
Ni	Nickel	<1	<1	<1	<1
Ag	Silver	<1	<1	<1	<1
Ti	Titanium	<1	<1	<1	<1
V	Vanadium	0	0	0	0
Mn	Manganese	0	0	0	1
Cd	Cadmium	0	0	0	0
Ca	Calcium	1899	1803	1826	2044
P	Phosphorus	1058	1125	1060	1222
Zn	Zinc	1250	1271	1450	1889
Mg	Magnesium	269	275	295	410
Ba	Barium	0	0	0	0
B	Boron	247	266	281	293
Sb	Antimony	0	0	0	0

PREVIOUS SAMPLE

Oil hours appear to be incorrect. 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.

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

CONDITION-CONTAMINATION

		16-Oct-23	14-Aug-23	27-Jul-23	20-May-23
OIL CONDITION					
ST	Soot	20	17	15	25
OXI	Oxidation	19	17	16	18
SUL	Sulfur Products	24	23	23	24
NIT	Nitration	9	8	8	9
VISCOSITY (Centistokes)					
V40	Viscosity at 40 C	108.0	108.4	106.5	108.9
CRACKLE TEST					
W	Water	N	N	N	N
FUEL					
F	Fuel	N	N	N	N

OIL CLEANLINESS

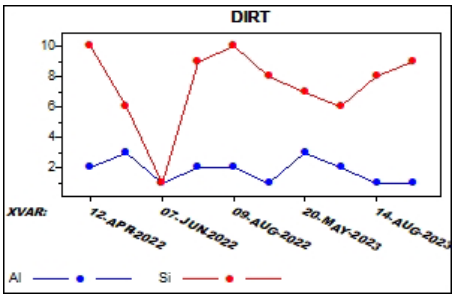
		16-Oct-23	14-Aug-23	27-Jul-23	20-May-23
PQI					
PQI	PQ Index	3	3	5	4

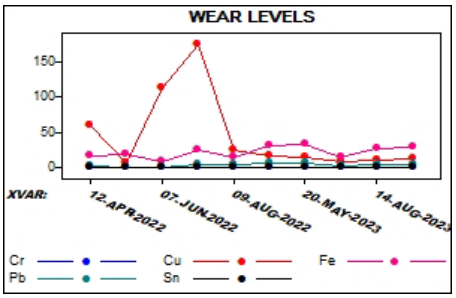
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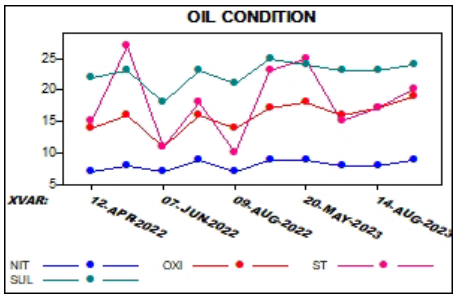
ENGINE
SERIAL NUMBER: 7PZ01505
EQUIP NUM: DZ234-DOZ847
CAT D11R

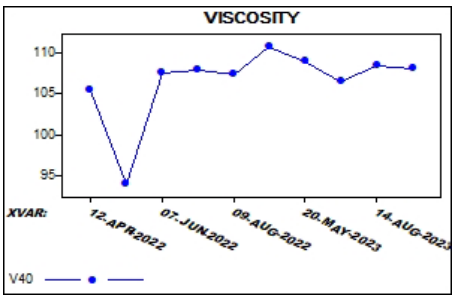
T120-53292-1010

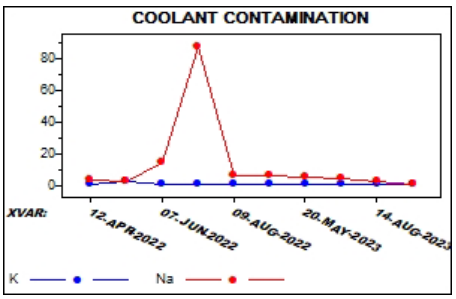
No Action Required











Report Comment

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

HYDRAULIC SYSTEM **EQUIP NUM: DZ234-DOZ847** **SERIAL NUMBER: 7PZ01505**

CAT D11R

T120-53292-1146

SAMPLE SHIP TIME (days) : 3

EMECO_INTERNATIONAL_PTY_LTD_NS

EMECO_SUNNYSIDE

RECEIVED DATE: 19-Oct-23

No Action Required

Interp By: Nikayla Howe

Interpreted On: 23-Oct-23

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.

SAMPLE INFORMATION

Sampled Date	16-Oct-23	01-Mar-23	09-Aug-22	12-Apr-22
Sample Id	T120-53292-1146	T120-53069-0603	T120-52222-0722	T120-52111-1011
Lab Date	19-Oct-23	10-Mar-23	10-Aug-22	21-Apr-22
Meter [Hr]	39835.0	38798.0	38294.0	37796.0
Meter On Fluid	2039.0	1002.0	498.0	1990.0
Fluid Brand	FUCHS	FUCHS	FUCHS	FUCHS
Fluid Weight	30	30	30	30
Fluid Type	TITAN UTTO TO-4	TITAN UTTO TO-4	TITAN UTTO TO-4	TITAN UTTO TO-4
Fluid Change	Y	N	N	Y
Filter Change	Y	Y	Y	Y
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

The aluminium and silicon are slightly high possibly due to dirt entry. Check fill points, seals and breathers for dirt entry points. 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 Ph 02 4964 5056.

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

ADDITIVES-WEAR LEVELS

		16-Oct-23	01-Mar-23	09-Aug-22	12-Apr-22
ELEMENTS (ppm) ASTM D5185					
Cu	Copper	18	12	11	13
Fe	Iron	4	15	11	13
Cr	Chromium	<1	2	1	2
Al	Aluminum	1	16	11	14
Pb	Lead	1	1	1	2
Sn	Tin	1	1	<1	1
Si	Silicon	14	42	33	38
Na	Sodium	<1	2	2	3
K	Potassium	<1	<1	1	2
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	0	0	0	0
Mn	Manganese	0	0	0	0
Cd	Cadmium	0	0	0	0
Ca	Calcium	3424	4076	3477	3829
P	Phosphorus	895	989	910	939
Zn	Zinc	1095	1400	1188	1171
Mg	Magnesium	12	15	13	15
Ba	Barium	0	0	0	0
B	Boron	4	2	2	2
Sb	Antimony	0	0	0	0

CONDITION-CONTAMINATION

		16-Oct-23	01-Mar-23	09-Aug-22	12-Apr-22
OIL CONDITION					
OXI	Oxidation	7	6	7	7
SUL	Sulfur Products	14	15	13	13
NIT	Nitration	4	4	4	4
VISCOSITY (Centistokes)					
V40	Viscosity at 40 C	88.72	90.89	88.56	89.58
CRACKLE TEST					
W	Water	N	N	N	N

OIL CLEANLINESS

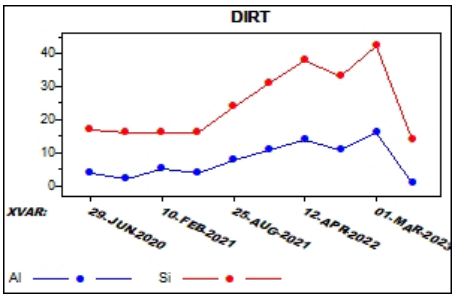
		16-Oct-23	01-Mar-23	09-Aug-22	12-Apr-22
PARTICLE COUNT					
ISO4	ISO4	22	23	21	21
ISO6	ISO6	18	20	16	16
ISO14	ISO14	14	13	12	11
4µ	4µ	22955	46922	15085	14225
6µ	6µ	1855	9761	492	571
10µ	10µ	225	619	70	29
14µ	14µ	90	71	30	11
21µ	21µ	32	11	17	4
25µ	25µ	16	5	15	2
38µ	38µ	4	0	10	1
70µ	70µ	3	0	7	0
PQI					
PQI	PQ Index	3	2	2	3

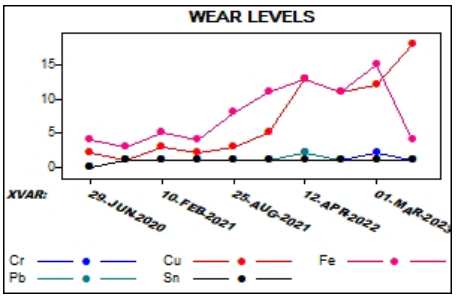
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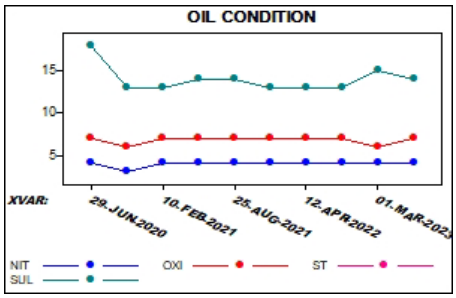
HYDRAULIC SYSTEM
SERIAL NUMBER: 7PZ01505
EQUIP NUM: DZ234-DOZ847
CAT D11R

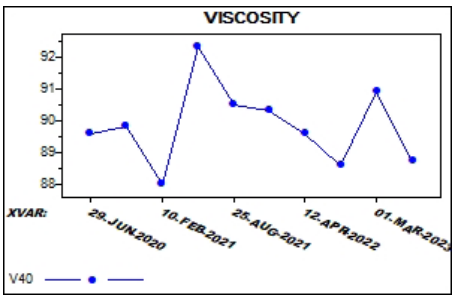
T120-53292-1146

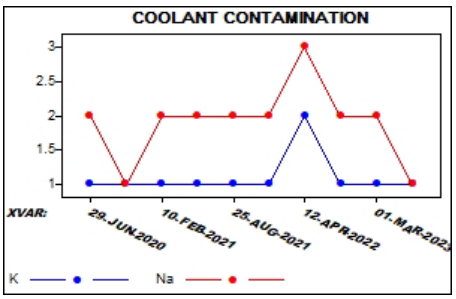
No Action Required











Report Comment

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

FINAL DRIVE REAR LEFT **EQUIP NUM: DZ234-DOZ847** **SERIAL NUMBER: 7PZ01505**

CAT D11R

T120-53292-1241

SAMPLE SHIP TIME (days) : 3

EMECO_INTERNATIONAL_PTY_LTD_NS

EMECO_SUNNYSIDE

RECEIVED DATE: 19-Oct-23

Monitor Compartment

Interp By: Nikayla Howe

Interpreted On: 23-Oct-23

The oil viscosity (V40) is lower than the specification for the reported oil. The oil add pack indicates a possible oil transfer. 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	16-Oct-23	01-Mar-23	09-Aug-22	12-Apr-22
Sample Id	T120-53292-1241	T120-53068-1102	T120-52222-0816	T120-52111-1121
Lab Date	19-Oct-23	09-Mar-23	10-Aug-22	21-Apr-22
Meter [Hr]	39835.0	38798.0	38294.0	37796.0
Meter On Fluid	2039.0	1002.0	498.0	978.0
Fluid Brand	FUCHS	FUCHS	FUCHS	FUCHS
Fluid Weight	60	60	60	60
Fluid Type	TITAN UTTO TO-4	TITAN UTTO TO-4	TITAN UTTO TO-4	TITAN UTTO TO-4
Fluid Change	Y	N	N	Y
Filter Change	N	NA	N	NA
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

The aluminium and silicon are slightly high possibly due to dirt entry. Check fill points, seals and breathers for dirt entry points. 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 Ph 02 4964 5056.

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

ADDITIVES-WEAR LEVELS

		16-Oct-23	01-Mar-23	09-Aug-22	12-Apr-22
ELEMENTS (ppm) ASTM D5185					
Cu	Copper	2	2	4	2
Fe	Iron	38	86	62	41
Cr	Chromium	1	2	1	1
Al	Aluminum	<1	22	3	3
Pb	Lead	3	1	6	3
Sn	Tin	<1	<1	<1	<1
Si	Silicon	20	68	17	16
Na	Sodium	<1	3	1	1
K	Potassium	<1	1	<1	1
Mo	Molybdenum	<1	1	<1	<1
Ni	Nickel	<1	8	5	4
Ag	Silver	<1	<1	<1	<1
Ti	Titanium	<1	1	<1	<1
V	Vanadium	0	0	0	0
Mn	Manganese	0	1	1	0
Cd	Cadmium	0	0	0	0
Ca	Calcium	3054	3347	2931	3017
P	Phosphorus	785	872	828	809
Zn	Zinc	981	1204	958	966
Mg	Magnesium	12	14	12	11
Ba	Barium	0	0	0	0
B	Boron	4	4	3	2
Sb	Antimony	0	0	0	0

CONDITION-CONTAMINATION

		16-Oct-23	01-Mar-23	09-Aug-22	12-Apr-22
OIL CONDITION					
OXI	Oxidation	7	6	6	6
SUL	Sulfur Products	15	15	14	14
NIT	Nitration	6	6	5	5
VISCOSITY (Centistokes)					
V40	Viscosity at 40 C	269.6	292.5	217.2	238.6
CRACKLE TEST					
W	Water	N	N	N	N

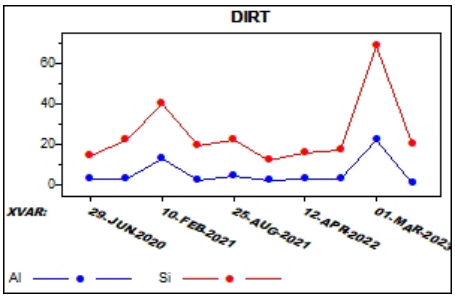
OIL CLEANLINESS

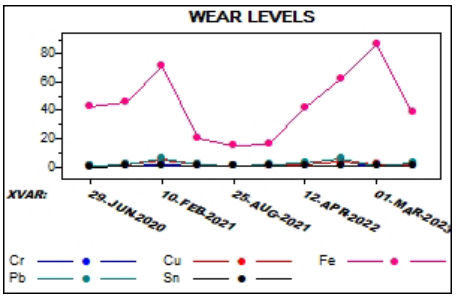
		16-Oct-23	01-Mar-23	09-Aug-22	12-Apr-22
PARTICLE COUNT					
ISO4	ISO4	22	23	21	22
ISO6	ISO6	19	20	20	20
ISO14	ISO14	15	15	19	14
4µ	4µ	37973	44452	19635	36558
6µ	6µ	4963	8392	8247	7266
10µ	10µ	465	470	3946	659
14µ	14µ	243	160	2607	140
21µ	21µ	145	63	1496	35
25µ	25µ	109	41	1118	21
38µ	38µ	46	13	634	6
70µ	70µ	20	2	380	1
PQI					
PQI	PQ Index	9	23	14	11

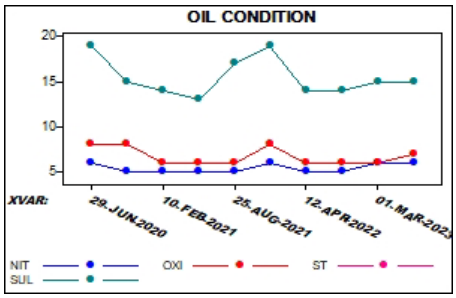
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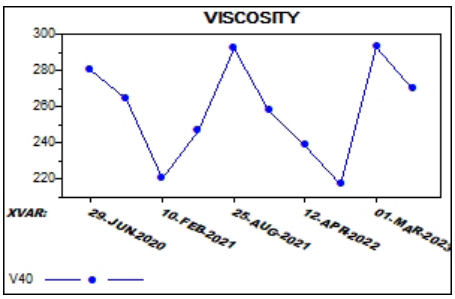
FINAL DRIVE REAR LEFT
SERIAL NUMBER: 7PZ01505
EQUIP NUM: DZ234-DOZ847
CAT D11R

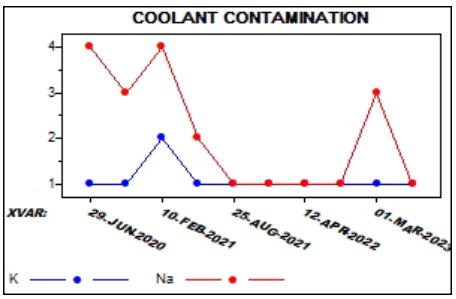
T120-53292-1241
Monitor Compartment











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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

FINAL DRIVE REAR RIGHT

EQUIP NUM: DZ234-DOZ847

CAT D11R

SERIAL NUMBER: 7PZ01505

T120-53292-1242

SAMPLE SHIP TIME (days) : 3

EMECO_INTERNATIONAL_PTY_LTD_NS

EMECO_SUNNYSIDE

RECEIVED DATE: 19-Oct-23

No Action Required

Interp By: Nikayla Howe

Interpreted On: 23-Oct-23

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.

SAMPLE INFORMATION

Sampled Date	16-Oct-23	01-Mar-23	09-Aug-22	12-Apr-22
Sample Id	T120-53292-1242	T120-53068-1101	T120-52222-0815	T120-52111-1122
Lab Date	19-Oct-23	09-Mar-23	10-Aug-22	21-Apr-22
Meter [Hr]	39835.0	38798.0	38294.0	37796.0
Meter On Fluid	2039.0	1002.0	498.0	978.0
Fluid Brand	FUCHS	FUCHS	FUCHS	FUCHS
Fluid Weight	60	60	60	60
Fluid Type	TITAN UTTO TO-4	TITAN UTTO TO-4	TITAN UTTO TO-4	TITAN UTTO TO-4
Fluid Change	Y	N	N	Y
Filter Change	N	NA	N	NA
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

The oil viscosity (V40) is lower than the specification for the reported oil. The oil add pack indicates a possible oil transfer. 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 Ph 02 4964 5056.

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

ADDITIVES-WEAR LEVELS

		16-Oct-23	01-Mar-23	09-Aug-22	12-Apr-22
ELEMENTS (ppm) ASTM D5185					
Cu	Copper	1	5	1	1
Fe	Iron	26	69	70	29
Cr	Chromium	1	1	2	1
Al	Aluminum	3	7	18	11
Pb	Lead	<1	8	<1	<1
Sn	Tin	<1	<1	<1	<1
Si	Silicon	22	29	60	37
Na	Sodium	<1	2	2	1
K	Potassium	<1	1	3	1
Mo	Molybdenum	<1	<1	<1	<1
Ni	Nickel	<1	5	5	5
Ag	Silver	<1	1	<1	<1
Ti	Titanium	<1	1	1	1
V	Vanadium	0	0	0	0
Mn	Manganese	0	1	1	0
Cd	Cadmium	0	0	0	0
Ca	Calcium	2651	3565	2817	2970
P	Phosphorus	695	923	796	790
Zn	Zinc	861	1267	921	978
Mg	Magnesium	10	13	13	12
Ba	Barium	0	0	0	0
B	Boron	4	4	4	2
Sb	Antimony	0	0	0	0

CONDITION-CONTAMINATION

		16-Oct-23	01-Mar-23	09-Aug-22	12-Apr-22
OIL CONDITION					
OXI	Oxidation	7	7	7	6
SUL	Sulfur Products	14	15	14	14
NIT	Nitration	6	6	6	6
VISCOSITY (Centistokes)					
V40	Viscosity at 40 C	296.3	219.3	293.8	294.4
CRACKLE TEST					
W	Water	N	N	N	N

OIL CLEANLINESS

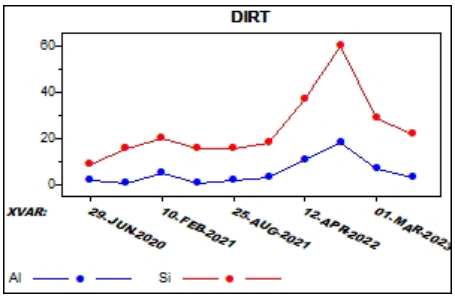
		16-Oct-23	01-Mar-23	09-Aug-22	12-Apr-22
PARTICLE COUNT					
ISO4	ISO4	22	22	22	23
ISO6	ISO6	19	20	20	22
ISO14	ISO14	14	14	18	16
4µ	4µ	37995	36283	20048	59635
6µ	6µ	4869	6249	7015	21894
10µ	10µ	367	440	2819	2917
14µ	14µ	152	134	1837	588
21µ	21µ	78	41	1128	96
25µ	25µ	55	25	891	44
38µ	38µ	21	10	541	9
70µ	70µ	4	3	306	1
PQI					
PQI	PQ Index	10	28	19	12

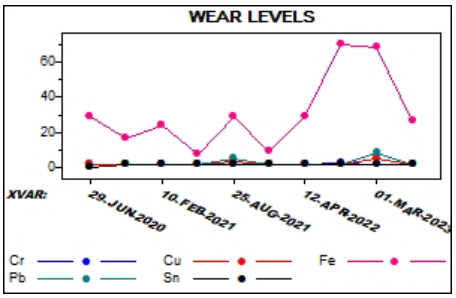
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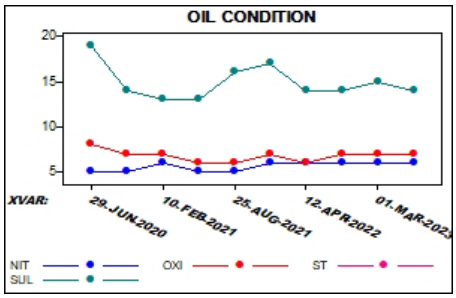
FINAL DRIVE REAR RIGHT
SERIAL NUMBER: 7PZ01505
EQUIP NUM: DZ234-DOZ847
CAT D11R

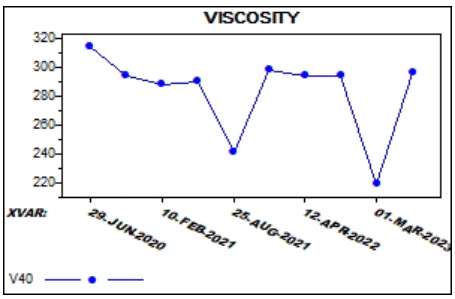
T120-53292-1242

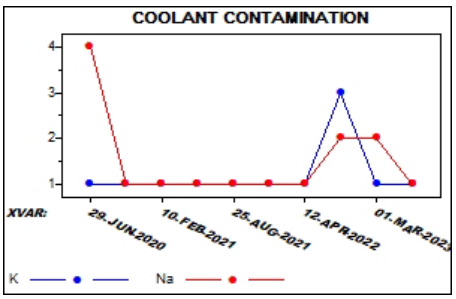
No Action Required











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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

TRANSMISSION POWER SHIFT

EQUIP NUM: DZ234-DOZ847 CAT D11R

SERIAL NUMBER: 7PZ01505

T120-53293-0909

SAMPLE SHIP TIME (days) : 4

EMECO_INTERNATIONAL_PTY_LTD_NS

EMECO_SUNNYSIDE

RECEIVED DATE: 20-Oct-23

Action Required

Interp By: Nikayla Howe

Interpreted On: 24-Oct-23

The iron and lead are increasing. Suggest inspecting system filter for wear metal and contaminants, if not already done. Resample after repairs or adjustments. ** 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	16-Oct-23	27-Jul-23	01-Mar-23	09-Aug-22
Sample Id	T120-53293-0909	T120-53208-0912	T120-53069-0310	T120-52222-0732
Lab Date	20-Oct-23	27-Jul-23	10-Mar-23	10-Aug-22
Meter [Hr]	39835.0	0	38798.0	38294.0
Comp Meter [Hr]		0		
Meter On Fluid	39835.0	0	504.0	498.0
Fluid Brand			FUCHS	FUCHS
Fluid Weight	30	30	30	30
Fluid Type			TITAN UTTO TO-4	TITAN UTTO TO-4
Fluid Change	Y	U	Y	Y
Filter Change	Y	U	Y	Y
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

Unknown meter, oil hours and oil type. The iron appears slightly 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.

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

ADDITIVES-WEAR LEVELS

		16-Oct-23	27-Jul-23	01-Mar-23	09-Aug-22
ELEMENTS (ppm) ASTM D5185					
Cu	Copper	45	22	24	20
Fe	Iron	71	39	40	32
Cr	Chromium	<1	<1	<1	<1
Al	Aluminum	<1	<1	1	1
Pb	Lead	66	37	45	37
Sn	Tin	1	<1	1	<1
Si	Silicon	14	7	8	7
Na	Sodium	4	<1	2	2
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	0	0	0	0
Mn	Manganese	0	0	0	0
Cd	Cadmium	0	0	0	0
Ca	Calcium	5679	3523	3722	3338
P	Phosphorus	1516	913	984	919
Zn	Zinc	1772	1111	1237	1162
Mg	Magnesium	25	14	16	14
Ba	Barium	0	0	0	0
B	Boron	6	3	5	5
Sb	Antimony	0	0	0	0

CONDITION-CONTAMINATION

		16-Oct-23	27-Jul-23	01-Mar-23	09-Aug-22
OIL CONDITION					
OXI	Oxidation	8	6	7	6
SUL	Sulfur Products	17	15	17	14
NIT	Nitration	5	5	5	4
VISCOSITY (Centistokes)					
V40	Viscosity at 40 C	94.91	92.54	92.73	91.84
CRACKLE TEST					
W	Water	N	N	N	N

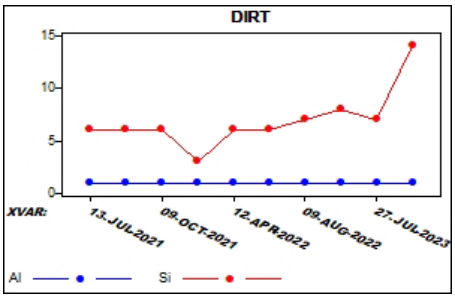
OIL CLEANLINESS

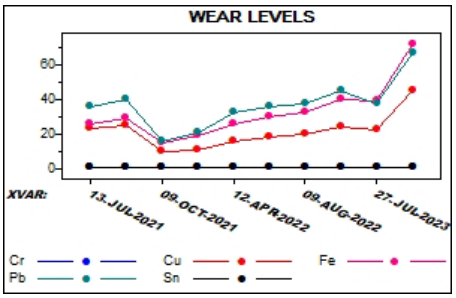
		16-Oct-23	27-Jul-23	01-Mar-23	09-Aug-22
PARTICLE COUNT					
ISO4	ISO4	23	22	21	21
ISO6	ISO6	22	17	17	19
ISO14	ISO14	17	10	13	16
4µ	4µ	59997	22372	19665	16136
6µ	6µ	23955	1163	1266	3056
10µ	10µ	4388	39	127	997
14µ	14µ	1171	9	52	460
21µ	21µ	166	2	18	166
25µ	25µ	38	1	9	83
38µ	38µ	0	1	2	14
70µ	70µ	0	0	1	7
PQI					
PQI	PQ Index	10	14	6	5

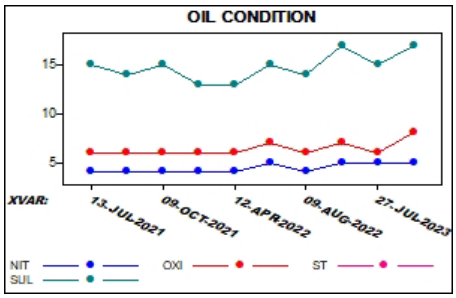
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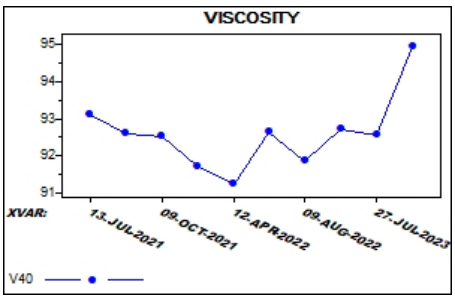
TRANSMISSION POWER SHIFT
SERIAL NUMBER: 7PZ01505
EQUIP NUM: DZ234-DOZ847
CAT D11R

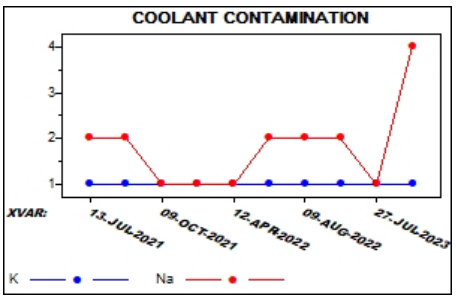
T120-53293-0909
Action Required











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