

MTST01200

DATE	HOURS	DESCRIPTION
12/2/2020	334	SERVICE; cat did 250hr
1/6/2021		REPLACE HYD CAP 290-7550 RINGPOWER INVOICE
1/6/2021		REPLACE OIL FILTERS 249-2347 RINGPOWER INVOICE
1/13/2021	611	SERVICE; cat did 500hr
2/24/2021	920	SERVICE; cat did 750hr
7/19/2021		REPLACE OIL CAP 359-1309 RINGPOWER INVOICE
5/7/2021	1,230	SERVICE; cat did 1000hr
6/16/2021	1,584	WARRANTY; def header
6/30/2021	1,510	SERVICE; cat did 250hr
8/23/2021	1,816	SERVICE; cat did 500hr
10/14/2021		REPLACE TRACKS 86085159
11/1/2021		DISCOUNT ON TRACKS FROM RPC
10/15/2021		REPLACE TENSION CYLINDER 86085180
10/15/2021		REPLACE TENSION CYLINDER 86085180
10/22/2021	2,153	SERVICE; cat did 750hr
10/27/2021		REPLACE BEARING 86036243
10/28/2021		REPLACE DRIVELINE BEARING U00798 RINGPOWER INVOICE
11/4/2021		REPLACE U-JOINT 86062579 RINGPOWER INVOICE
11/22/2021	2,330	WARRANTY; engine oil leak at fan, cylinder head still leaking
12/2/2021	2,349	WARRANTY; ENGINE cat rep. cyl. Head gasket
12/9/2021		RETURN DRIVELINE BEARING U00798 RINGPOWER DOCUMENT
1/19/2022		REPLACE REFRIGERANT R134A RINGPOWER INVOICE
2/1/2022	2,478	SERVICE; cat did 2000hr
2/18/2022		STOCK UP ON TRACKS 86085159 RINGPOWER INVOICE
3/8/2022		REPLACE A/C COMPRESSOR 86068105 RINGPOWER INVOICE
3/17/2022		REPLACE A/C HOSES 86088667 RINGPOWER INVOICE
3/21/2022	2,744	SERVICE; cat did 250hr
3/30/2022		FAN HUB; cat repaired hub fan / repl. Harness
4/6/2022	2,855	SERVICE; cat did resample trans.
4/12/2022		WARRANTY; A/C ENGINE BRACKET BROKEN
5/6/2022		REPLACE WIRE TIES 6K-0806 RINGPOWER INVOICE
5/6/2022		REPLACE HYD HOSE 456-8477 RINGPOWER INVOICE
5/26/2022	3,038	SERVICE; cat did 500hr
6/1/2022	3,054	DRIVE SHAFT; cat rep. carrier brg. & mt. / driveshaft
7/7/2022		REPLACE TRACK 86085159 RINGPOWER INVOICE
7/8/2022		REPLACE ROLLERS 4W-5058ML RINGPOWER INVOICE CORE \$ 150.00

7/11/2022 REPLACE ROLLERS 4W-5058ML RINGPOWER INVOICE CORE \$150.00

7/11/2022 3,224 SERVICE; cat did eng. Oil & filter

7/29/2022 CORE CREDIT FOR 3 - 4W-5058ML RINGPOWER DOCUMENT

7/21/2022 REPLACE LINING KIT 86084519 RINGPOWER INVOICE

7/28/2022 3,346 SERVICE; cat did 750hr

9/7/2022 3,519 REPAIR HITCH

10/17/2022 REPLACE SP SENSOR 279-9829 RINGPOWER INVOICE

10/14/2022 REPLACE FUEL FILTERS 570-1623 RINGPOWER INVOICE

11/14/2022 HYDS; replace hyd line invoice

12/7/2022 REPLACE TRACKS 86085159 RINGPOWER INVOICE

12/22/2022 CREDIT FREIGHT FOR TRACKS RINGPOWER DOCUMENT

12/8/2022 REPLACE ELECTRIC SUPPLIES 84-2550 RINGPOWER INVOICE

12/8/2022 REPLACE GREASE COUPLERS 190-1668 RINGPOWER INVOICE

12/14/2022 REPLACE QUICK DISCONNECT COUPLINGS 807304013 PIRTEK INVOICE

12/21/2022 REPLACE OIL FILLER CAP 359-1309 RINGPOWER INVOICE

12/27/2022 REPLACE OIL FILL TUBE 592-5878 RINGPOWER INVOICE

1/4/2023 3,704 SERVICE; CAT DID 1000HR

1/16/2023 REPLACE NOX SENSOR 539-0117 RINGPOWER INVOICE

1/17/2023 REPLACE ENGINE OIL CAP 359-1309 RINGPOWER INVOICE

2/17/2023 REPAIR HYD CYLINDER SOUTHERN HYD INVOICE

2/27/2023 REPLACE SHUTTLE TEE RINGPOWER INVOICE

3/1/2023 REPLACE BRG MOUNT 38652 RINGPOWER INVOICE

3/6/2023 3,999 SERVICE; CAT DID 250HR

3/20/2023 REPLACE FUEL SENDER 86085860 RINGPOWER INVOICE

4/27/2023 REPLACE TAP SCREW 4C-4997 RINGPOWER INVOICE

4/27/2023 REPLACE GAS SPRING 09703149 RINGPOWER INVOICE

4/28/2023 REPLACE VEE-BELTS 9L-6643 RINGPOWER INVOICE

5/2/2023 REPLACE DEF CAP 398-3011 RINGPOWER INVOICE

5/8/2023 REPAIR HYD CYLINDER SOUTHERN HYD INVOICE

5/8/2023 CLEAN UNIT/PARK BREAK KIT/COOLANT DRAIN VALVE

5/8/2023 4,156 RECONDITION CENTER PIN

5/9/2023 REPLACE ARD HEAD 20R-8578 RINGPOWER INVOICE CORE \$707.60

5/16/2023 CORE CREDIT 20R-8578 ARD HEAD RINGPOWER DOCUMENT

5/17/2023 REPLACE PRESSURE SENSOR 284-2728 RINGPOWER INVOICE

5/22/2023 REPLACE WIPER BLADES 86047081 RINGPOWER INVOICE

6/5/2023 4,284 SERVICE; CAT DID 500HR

6/29/2023 REPLACE FUSE HOLDERS 82-2166 RINGPOWER INVOICE

7/12/2023 REPLACE SOLENOID VALVES 331-0208 RINGPOWER INVOICE

7/20/2023		REPLACE ARD HEAD 348-3403 RINGPOWER INVOICE
7/3/2023		REPLACE KEYS 86502201 RINGPOWER INVOICE
7/21/2023		REPLACE ROLLERS 4W-05058 RINGPOWER INVOICE CORE \$150.00 EA
10/19/2023		CORE CREDIT FOR 7 ROLLERS 4W-05058 RINGPOWER DOCUMENT
1/2/2024		FULL CORE CREDIT FOR 1 ROLLER 4W-05058ML
8/2/2023	4,509	WARRANTY; TRANNY GEAR / REPLACE PARK BRAKE
9/22/2023		REPLACE STUCCHI COUPLERS 807304013 SOUTHERN HYD INVOICE
10/13/2023		REBUILD TRACK ADJ CYLINDERS S. HYD INVOICE
10/18/2023		REPLACE TRACKS 86085159 RINGPOWER INVOICE
10/27/2023		REPLACE ARD HEAD 20R-8578 RINGPOWER INVOICE CORE \$707.60
11/11/2023		WARRANTY CREDIT 20R-8578 RINGPOWER DOCUMENT
11/2/2023		CORE CREDIT 20R-8578 RINGPOWER DOCUMENT
10/25/2023	4,591	SERVICE; CAT DID 750HR
10/31/2023		REPLACE ARD HEAD RELAY 574-6790 RINGPOWER INVOICE
11/1/2023		REPLACE WIRING HARNESS 352-4756 RINGPOWER INVOICE
11/13/2023		REPLACE DPF FILTER 20R-3529 RINGPOWER INVOICE CORE \$1536.17
11/14/2023		CORE CREDIT DPF FILTER 20R-3529 RINGPOWER DOCUMENT
11/14/2023		REPLACE TURBO BAND CLAMP 346-0335 RINGPOWER INVOICE
11/30/2023		REPLACE DEF MANIFOLD 528-0550 RINGPOWER INVOICE
12/14/2023		REPLACE RECOATED IDLER 5W-0261RM RINGPOWER INVOICE CORE\$ 650.00
12/27/2023		NO CORE CREDIT FOR IDLER 5W-0261RM . RETURNED IN 2 PIECES
1/3/2024		REPLACE IDLER 5W-0261RM RINGPOWER INVOICE CORE \$650.00
2/14/2024		CORE CREDIT IDLER 5W-0261RM RINGPOWER DOCUMENT
2/15/2024		REPLACE RECOATED IDLER 5W-0261RM RINGPOWER INVOICE CORE\$ 650.00
2/23/2024		REPLACE CABLE CX02-1012-1 CERTEX INVOICE
3/4/2024	4,910	SERVICE; CAT DID 2000HR
3/12/2024		REPLACE ARD HEAD 20R-8578 RINGPOWER INVOICE
3/18/2024		WARRANTY CREDIT 20R-8578 RINGPOWER DOCUMENT
3/22/2024		REPLACE BALLVALVE 86052523 RINGPOWER INVOICE
4/17/2024		REPLACE WIPER ARM 86047089 RINGPOWER INVOICE
5/16/2024	5,220	SERVICE; CAT DID 250HR
5/22/2024		REPLACE PRESSURE SENSOR 284-2728 RINGPOWER INVOICE
6/6/2024		REPLACE CABLE HANGAR U00688 RINGPOWER INVOICE
8/1/2024		REPLACE CABLE HANGAR A00168 RINGPOWER INVOICE
9/10/2024		REPLACE DUAL POLE BATT SENSOR 86055884 RINGPOWER INVOICE
9/12/2024	5,477	SERVICE; CAT DID 500HR
9/25/2024		REPLACE HYD HOSE 8M2T SOUTHERN HYD INVOICE
10/3/2024		REPLACE ARD HEAD 20R-8578 RINGPOWER INVOICE CORE \$721.74

10/21/2024	RETURN ARD HEAD 20R-8578 RINGPOWER DOCUMENT
10/17/2024	REPLACE NBATTERIES 175-4390 RINGPOWER INVOICE
10/18/2024	REPLACE STARTER 10R-0401 RINGPOWER INVOICE CORE \$674.58
10/30/2024	CORE CREDIT STARTER 10R-0401 RINGPOWER DOCUMENT
10/28/2024	REPLACE GUIDE ROLLERS 86065106 RINGPOWER INVOICE
10/30/2024	REPLACE TRACKS 86085159 RINGPOWER INVOICE
11/4/2024	REPLACE LINING KIT 86084519 RINGPOWER INVOICE
12/2/2024	REPLACE OIL CAP 359-1309 RINGPOWER INVOICE
12/3/2024	SERVICE; CAT DID 750HR
12/9/2024	REPLACE HOSE AS 86088667 RINGPOWER INVOICE
1/21/2025	REPLACE HARDWARE 86030658 RINGPOWER INVOICE
2/10/2025	REPLACE HOSE AS 86084857 RINGPOWER INVOICE
2/13/2025	REPLACE PRESSURE SWITCH 09707483 RINGPOWER INVOICE
2/17/2025	REPLACE NOX SENSOR 539-0117 RINGPOWER INVOICE
2/18/2025	REPLACE ENGINE EXHAUST TUBE? 86061079 RINGPOWER INVOICE
2/20/2025	REPLACE TRACK 86085159 RINGPOWER INVOICE
2/21/2025	REPLACE RECOATED MID ROLLER 4W-5058ML RING INVOICE CORE \$150.00
3/13/2025	CORE CREDIT FOR MID ROLLER 4W-5058ML RINGPOWER DOCUMENT
3/4/2025	REPLACE TEE 86002299 RINGPOWER INVOICE
3/4/2025	REPLACE IDLER 5W-0261RM RINGPOWER INVOICE CORE \$650.00
3/13/2025	CORE CREDIT IDLER 5W-0261RM RINGPOWER DOCUMENT
3/13/2025	REPLACE PRESSURE SENSOR 298-6488 RINGPOWER INVOICE
3/19/2025	REPLACE BATTERY CABLE 86055884 RINGPOWER INVOICE
3/20/2025	REPAIR CYLINDER. S. HYD INVOICE
3/25/2025	REPLACE PAG OIL RINGPOWER INVOICE
3/25/2025	REPLACE A/C COMPRESSOR 86068105 RINGPOWER INVOICE
3/26/2025	REPLACE PRESSURE SENSOR 09707484 RINGPOWER INVOICE
3/31/2025	REPLACE ROLLED 1" STEEL BAR L&C METAL INVOICE
4/1/2025	REPLACE ELECTRICAL SOCKETS 267-9572 RINGPOWER INVOICE
4/2/2025	REPLACE SOLENOID 86034145 RINGPOWER INVOICE
4/3/2025	FRT CREDIT ON 11C397058 RINGPOWER DOCUMENT
4/2/2025	REPLACE DRIVESHAFT 86058137 RINGPOWER INVOICE
4/8/2025	REPLACE HOSE AS 86080513 RINGPOWER INVOICE
4/11/2025	REPLACE ELBOW 20FFORX90 ROYAL BRASS INVOICE
5/14/2025	REPLACE ARD HEAD 20R-8578 RINGPOWER INVOICE CORE \$721.74
8/11/2025	CORE CREDIT 20R-8578 RINGPOWER INVOICE
6/12/2025	REPAIR CYLINDERS RECHROME/REBULD FLUID POWER INVOICE
6/27/2025	REPLACE BATTERY CABLES 86088614 RINGPOWER INVOICE

8/5/2025	REPLACE DEF INUECTOR 485-9752 RINGPOWER INVOICE
8/6/2025	REPLACE DEF INUECTOR HARNNESS 380-3896 RINGPOWER INVOICE
8/13/2025	REPLACE AXLE IDLER 86046179 RINGPOWER INVOICE
8/18/2025	REPLACE DIP STICK 391-9011 RINGPOWER INVOICE
8/19/2025	REPLACE REAR IDLER COVER 86085167 RINGPOWER INVOICE
9/3/2025	REPLACE ARD HEAD 348-3403 RINGPOWER INVOICE
9/5/2025	REPLACE EMISSIONS LINE GASKET 329-6729 RINGPOWER INVOICE
9/25/2025	REPLACE A/C LINE R8H_HOSE ASSY ROYAL BRASS INVOICE
10/6/2025	REPLACE FREON R134A RINGPOWER INVOICE
11/18/2025	REPLACE FRONT GLASS 86043001 RINGPOWER INVOICE
1/12/2026	REPLACE SPACER WINDSHIELD 09706834 RINGPOWER INVOICE
1/22/2026	REPLACE EXUAST STACK 29308 NAPA INVOICE
1/28/2026	REPLACE EXUAST CLAMP 733-5975 NAPA INVOICE
1/28/2026	REPLACE BATTERIES 31AS BATTERY USA
1/28/2026	REPLACE STARTER 42MT BATTERY USA

ENGINE

EQUIP NUM: E-1790

SERIAL NUMBER: MTST01200

D350-55090-0705

LABEL#: 256189510

SHOP JOB NUM : AB05150

SAMPLE SHIP TIME (days) : 4

JR. DAVIS CONSTRUCTION

RECEIVED DATE: 31-Mar-25

OTHER MTS

No Action Required

NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

Interp By: Anet Garcia
Interpreted On: 31-Mar-25

SAMPLE INFORMATION

	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
Sampled Date	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
Sample Id	D350-55090-0705	D350-54362-1113	D350-54263-2405	D350-54143-1112
Lab Date	31-Mar-25	27-Dec-24	19-Sep-24	22-May-24
Meter [Hr]	6126	5776	5477	5220
Meter On Fluid	350	299	257	310
Fluid Brand			NULL	NULL
Fluid Weight	15W-40	15W-40	15W-40	15W-40
Fluid Type				
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

NORMAL WEAR METAL READINGS. DETECTED TRACE OF WATER IN SAMPLE BOTTLE. INDICATED OIL WAS CHANGED. WILL MONITOR WITH SAMPLES.

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

CONDITION / CONTAMINATION

		27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
VISCOSITY (CENTISTOKES) ASTM D445					
V100	Viscosity at 100 C	13.80	13.10	12.70	13.30

INFRARED (UFM) ASTM E2412

		27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
ST	Soot	13	19	6	7
OXI	Oxidation	26	26	23	26
SUL	Sulfate By-Product	26	26	25	26
	Sulfur Products	26	26	25	26
NIT	Nitration	13	15	10	12

WEAR LEVELS / ADDITIVES

		27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]					
Cu	Copper	4	4	2	2
Fe	Iron	22	21	15	23
Cr	Chromium	0	0	0	0
Al	Aluminum	2	2	3	0
Pb	Lead	7	6	2	4
Sn	Tin	0	1	0	0
Si	Silicon	4	4	4	7
Na	Sodium	6	0	3	0
K	Potassium	2	5	2	5
Mo	Molybdenum	52	49	45	39
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
Ca	Calcium	2332	1897	2465	1985
P	Phosphorus	1210	1005	1490	1052
Zn	Zinc	1456	1244	1663	1243
Mg	Magnesium	592	602	534	459
Ba	Barium	0	0	0	0
B	Boron	31	33	33	35

WATER

		27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
W	Water	N	T	N	N

ANTIFREEZE

		27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
A	Antifreeze	N	N	N	N

FUEL

		27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
F	Fuel	N	N	N	N

ENGINE
SERIAL NUMBER: MTST01200
EQUIP NUM: E-1790
OTHER MTS

D350-55090-0705



No Action Required

Report Comment

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DIFFERENTIAL FRONT

EQUIP NUM: E-1790

SERIAL NUMBER: MTST01200

D350-55090-0725

LABEL#: 256196505

SHOP JOB NUM : AB05150

SAMPLE SHIP TIME (days) : 4

JR. DAVIS CONSTRUCTION

RECEIVED DATE: 31-Mar-25

OTHER MTS

No Action Required

NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

Interp By: Anet Garcia
Interpreted On: 31-Mar-25

SAMPLE INFORMATION

	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
Sampled Date	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
Sample Id	D350-55090-0725	D350-54362-1137	D350-54263-2423	D350-54143-1148
Lab Date	31-Mar-25	27-Dec-24	19-Sep-24	22-May-24
Meter [Hr]	6126	5776	5477	5220
Meter On Fluid	1216	866	567	310
Fluid Brand				
Fluid Weight	85W-140	85W-140	85W-140	85W-140
Fluid Type				
Fluid Change	Y	N	N	N
Filter Change	N	N	N	N
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

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

CONDITION / CONTAMINATION

	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
VISCOSITY (CENTISTOKES) ASTM D445				
V100 Viscosity at 100 C	20.60	20.80	21.40	22.50

INFRARED (UFM) ASTM E2412

	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
ST Soot	0	0	0	0
OXI Oxidation	6	5	5	6
SUL Sulfate By-Product	20	21	21	22
Sulfur Products	20	21	21	22
NIT Nitration	4	4	4	4

WEAR LEVELS / ADDITIVES

	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
ELEMENTAL ANALYSIS (PPM) ASTM D6185 [OIL] / ASTM D8130 [COOLANT]				
Cu Copper	0	0	0	1
Fe Iron	28	21	22	19
Cr Chromium	0	0	0	0
Al Aluminum	0	0	1	0
Pb Lead	0	0	0	0
Sn Tin	0	0	0	0
Si Silicon	10	7	8	7
Na Sodium	7	0	1	0
K Potassium	0	2	2	3
Mo Molybdenum	0	0	2	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	0	0	0	0
Ca Calcium	697	473	654	239
P Phosphorus	1425	892	1632	850
Zn Zinc	307	213	305	116
Mg Magnesium	4	0	4	0
Ba Barium	0	0	0	0
B Boron	158	118	158	130

WATER

	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
W Water	N	T	N	N

DIFFERENTIAL FRONT
SERIAL NUMBER: MTST01200
EQUIP NUM: E-1790
OTHER MTS

D350-55090-0725



No Action Required

Report Comment

VisionLink® will be the new home for S-O-SSM Services fluid analysis. Begin the transition to VisionLink now - Sign up or log into vcat.com to update your settings, manage your fleet, configure your jobsites (groups), and view your samples. The ability for users to submit samples, track samples, view and graph sample history, and download reports are coming to VisionLink soon.

DIFFERENTIAL REAR

EQUIP NUM: E-1790

SERIAL NUMBER: MTST01200

D350-55090-0728

LABEL#: 256189711

SHOP JOB NUM : AB05150

SAMPLE SHIP TIME (days) : 4

JR. DAVIS CONSTRUCTION

RECEIVED DATE: 31-Mar-25

OTHER MTS

No Action Required

NORMAL WEAR METAL READING. ON VISUAL INSPECTION DETECTED A LOW AMOUNT OF FINE DEBRIS PARTICLES IN SAMPLE BOTTLE. INDICATED OIL WAS CHANGED. WILL MONITOR WITH SAMPLES.

Interp By: Anet Garcia
Interpreted On: 31-Mar-25

SAMPLE INFORMATION

	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
Sampled Date	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
Sample Id	D350-55090-0728	D350-54362-0649	D350-54263-2426	D350-54143-1151
Lab Date	31-Mar-25	27-Dec-24	19-Sep-24	22-May-24
Meter [Hr]	6126	5776	5477	5220
Meter On Fluid	1216	866	567	310
Fluid Brand				
Fluid Weight	85W-140	85W-140	85W-140	85W-140
Fluid Type				
Fluid Change	Y	N	N	N
Filter Change	N	N	N	N
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

NORMAL WEAR METAL READINGS. ON VISUAL INSPECTION FOUND LOW AMOUNT OF FINE DEBRIS. INDICATED OIL WAS NOT CHANGED. WILL MONITOR WITH SAMPLES.

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

CONDITION / CONTAMINATION

		27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
VISCOSITY (CENTISTOKES) ASTM D445					
V100	Viscosity at 100 C	24.70	24.60	26.60	24.70

WEAR LEVELS / ADDITIVES

27-Mar-25 23-Dec-24 13-Sep-24 20-May-24

ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D8130 [COOLANT]

		27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
Cu	Copper	0	0	0	0
Fe	Iron	104	54	56	47
Cr	Chromium	0	1	0	0
Al	Aluminum	0	0	0	0
Pb	Lead	0	0	0	0
Sn	Tin	0	0	0	0
Si	Silicon	21	12	14	12
Na	Sodium	7	0	3	0
K	Potassium	0	1	1	3
Mo	Molybdenum	0	0	1	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
Ca	Calcium	158	67	109	30
P	Phosphorus	1592	621	1380	841
Zn	Zinc	71	31	52	18
Mg	Magnesium	2	0	1	0
Ba	Barium	0	0	0	0
B	Boron	184	101	153	147

INFRARED (UFM) ASTM E2412

		27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
ST	Soot	0	0	0	0
OXI	Oxidation	6	5	5	5
SUL	Sulfate By-Product	22	21	21	22
	Sulfur Products	22	21	21	22
NIT	Nitration	4	4	4	4

WATER

		27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
W	Water	N	T	N	N

DIFFERENTIAL REAR
SERIAL NUMBER: MTST01200
EQUIP NUM: E-1790
OTHER MTS

D350-55090-0728



No Action Required

Report Comment

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HYDRAULIC SYSTEM

EQUIP NUM: E-1790

SERIAL NUMBER: MTST01200

D350-55090-0129

LABEL#: 256189536

SHOP JOB NUM : AB05150

SAMPLE SHIP TIME (days) : 4

JR. DAVIS CONSTRUCTION

RECEIVED DATE: 31-Mar-25

OTHER MTS

No Action Required

NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

Interp By: Kelsie Gibson
Interpreted On: 31-Mar-25

SAMPLE INFORMATION

	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
Sampled Date	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
Sample Id	D350-55090-0129	D350-54362-0421	D350-54263-0837	D350-54143-0420
Lab Date	31-Mar-25	27-Dec-24	19-Sep-24	22-May-24
Meter [Hr]	6126	5776	5477	5220
Meter On Fluid	1216	866	567	310
Fluid Brand	CAT	CAT	CAT	CAT
Fluid Weight	10W-30	10W-30	10W-30	10W-30
Fluid Type				
Fluid Change	Y	N	N	N
Filter Change	Y	N	Y	N
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

NORMAL WEAR METAL READINGS. DETECTED TRACE OF WATER IN SAMPLE BOTTLE. INDICATED OIL WAS NOT CHANGED. WILL MONITOR WITH SAMPLES

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

CONDITION / CONTAMINATION

		27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
VISCOSITY (CENTISTOKES) ASTM D445					
V100	Viscosity at 100 C	10.60	9.900	8.800	8.700

INFRARED (UFM) ASTM E2412

		27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
ST	Soot	0	0	0	0
OXI	Oxidation	5	6	7	7
SUL	Sulfate By-Product	13	14	15	15
	Sulfur Products	13	14	15	15
NIT	Nitration	4	4	4	3

WEAR LEVELS / ADDITIVES

		27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
ELEMENTAL ANALYSIS (PPM) ASTM D6185 [OIL] / ASTM D8130 [COOLANT]					
Cu	Copper	1	6	1	1
Fe	Iron	3	5	3	3
Cr	Chromium	0	1	0	0
Al	Aluminum	2	2	1	1
Pb	Lead	0	0	1	1
Sn	Tin	0	0	0	0
Si	Silicon	9	5	4	6
Na	Sodium	2	3	1	3
K	Potassium	0	0	0	0
Mo	Molybdenum	18	2	4	2
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
Ca	Calcium	2623	1685	2601	2943
P	Phosphorus	900	651	876	946
Zn	Zinc	1072	855	1091	1193
Mg	Magnesium	83	25	29	25
Ba	Barium	0	0	0	0
B	Boron	23	3	43	54

WATER

		27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
W	Water	N	T	N	N

ANTIFREEZE

		27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
A	Antifreeze	N	N	N	N

CLEANLINESS

		27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
PARTICLE COUNT - ISO 11171:1999 reported per ISO 4406					
ISO	ISO Code Rating	20/17/14	19/17/14	20/18/16	20/17/13
4µ	4µ	54	50	78	56
6µ	6µ	10	11	22	11
10µ	10µ	3	2	8	2
14µ	14µ	1	1	4	1
18µ	18µ	1	0	2	1
21µ	21µ	0	0	2	0
38µ	38µ	0	0	0	0
50µ	50µ	0	0	0	0

HYDRAULIC SYSTEM
SERIAL NUMBER: MTST01200
EQUIP NUM: E-1790
OTHER MTS

D350-55090-0129



No Action Required

Report Comment

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TRANSMISSION

EQUIP NUM: E-1790

SERIAL NUMBER: MTST01200

D350-55090-0150

LABEL#: 256189425

SHOP JOB NUM : AB05150

SAMPLE SHIP TIME (days) : 4

JR. DAVIS CONSTRUCTION

RECEIVED DATE: 31-Mar-25

OTHER MTS



Monitor Compartment

VERIFY HOURS ON OIL? IRON IS ELEVATED. POSSIBLE WEAR SOURCES: CLUTCH, DISKS, GEARS. INSPECT FILTER FOR METAL. REPAIR AS NEEDED. ISO PARTICLE COUNT IS ELEVATED. CHECK FOR PLUGGED FILTERS & CHANGE AS NEEDED. INDICATED OIL WAS CHANGED. RESAMPLE AT HALF THE SAMPLE INTERVAL TO MONITOR.

Interp By: Kelsie Gibson

Interpreted On: 01-Apr-25

SAMPLE INFORMATION

	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
Sampled Date	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
Sample Id	D350-55090-0150	D350-54362-0448	D350-54263-0845	D350-54143-0456
Lab Date	31-Mar-25	27-Dec-24	19-Sep-24	22-May-24
Meter [Hr]	6126	5776	5477	5220
Meter On Fluid	1216	866	567	310
Fluid Brand	CAT	CAT	CAT	CAT
Fluid Weight	10W-30	10W-30	10W-30	10W-30
Fluid Type				
Fluid Change	Y	N	N	N
Filter Change	Y	N	Y	N
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

INCREASE IN IRON. POSSIBLE WEAR SOURCES: CLUTCH, DISKS, GEARS. INSPECT FILTER FOR METAL. REPAIR AS NEEDED. ISO PARTICLE COUNT IS ELEVATED. CHECK FOR PLUGGED FILTERS & CHANGE AS NEEDED. RESAMPLE AT HALF THE SAMPLE INTERVAL TO MONITOR.

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

CONDITION / CONTAMINATION

		27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
VISCOSITY (CENTISTOKES) ASTM D445					
V100	Viscosity at 100 C	8.000	7.300	7.300	8.500

INFRARED (UFM) ASTM E2412

		27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
ST	Soot	0	0	0	0
OXI	Oxidation	9	8	9	9
SUL	Sulfate By-Product	18	17	17	17
	Sulfur Products	18	17	17	17
NIT	Nitration	4	3	4	4

WEAR LEVELS / ADDITIVES

		27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]					
Cu	Copper	1	2	1	1
Fe	Iron	119	78	54	36
Cr	Chromium	1	1	0	0
Al	Aluminum	1	1	1	0
Pb	Lead	0	0	0	0
Sn	Tin	0	0	0	0
Si	Silicon	8	6	6	7
Na	Sodium	12	13	10	9
K	Potassium	0	0	0	0
Mo	Molybdenum	2	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
Ca	Calcium	3414	3376	3139	3614
P	Phosphorus	1145	986	1009	1124
Zn	Zinc	1369	1287	1277	1405
Mg	Magnesium	19	9	10	11
Ba	Barium	0	0	0	0
B	Boron	90	84	92	99

WATER

		27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
W	Water	N	N	N	N

ANTIFREEZE

		27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
A	Antifreeze	N	N	N	N

CLEANLINESS

		27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
PARTICLE COUNT - ISO 11171:1999 reported per ISO 4406					
ISO	ISO Code Rating	18/16/13	24/21/19	23/19/16	21/18/13
4µ	4µ	18	871	594	144
6µ	6µ	5	149	45	15
10µ	10µ	1	54	7	2
14µ	14µ	1	29	3	1
18µ	18µ	0	17	2	0
21µ	21µ	0	11	1	0
38µ	38µ	0	1	0	0
50µ	50µ	0	0	0	0

TRANSMISSION
SERIAL NUMBER: MTST01200
EQUIP NUM: E-1790
OTHER MTS

D350-55090-0150



Monitor Compartment

Report Comment

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FINAL DRIVE FRONT

LEFT

D350-55090-0726
 LABEL#: 256189461
 SHOP JOB NUM : AB05150
 SAMPLE SHIP TIME (days) : 4
JR. DAVIS CONSTRUCTION
 RECEIVED DATE: 31-Mar-25

EQUIP NUM: E-1790

SERIAL NUMBER: MTST01200

OTHER MTS

No Action Required

NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

Interp By: Anet Garcia
Interpreted On: 31-Mar-25

SAMPLE INFORMATION

	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
Sampled Date	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
Sample Id	D350-55090-0726	D350-54362-1138	D350-54263-2424	D350-54143-1149
Lab Date	31-Mar-25	27-Dec-24	19-Sep-24	22-May-24
Meter [Hr]	6126	5776	5477	5220
Meter On Fluid	1216	866	567	310
Fluid Brand				
Fluid Weight	85W-140	85W-140	85W-140	85W-140
Fluid Type				
Fluid Change	Y	N	N	N
Filter Change	N	N	N	N
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

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

CONDITION / CONTAMINATION

	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
VISCOSITY (CENTISTOKES) ASTM D445				
V100 Viscosity at 100 C	21.80	21.50	21.90	22.80

INFRARED (UFM) ASTM E2412

	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
ST Soot	0	0	0	0
OXI Oxidation	6	5	5	6
SUL Sulfate By-Product	21	19	21	22
Sulfur Products	21	19	21	22
NIT Nitration	4	3	4	4

WEAR LEVELS / ADDITIVES

	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]				
Cu Copper	0	0	0	1
Fe Iron	25	18	21	17
Cr Chromium	0	0	0	0
Al Aluminum	0	0	1	0
Pb Lead	0	0	1	0
Sn Tin	0	0	0	0
Si Silicon	9	6	8	7
Na Sodium	8	0	1	0
K Potassium	0	1	2	2
Mo Molybdenum	0	0	1	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
Ca Calcium	640	365	557	262
P Phosphorus	1389	785	1537	920
Zn Zinc	282	166	263	126
Mg Magnesium	4	0	3	0
Ba Barium	0	0	0	0
B Boron	149	107	149	137

WATER

	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
W Water	N	T	N	N

FINAL DRIVE FRONT LEFT
SERIAL NUMBER: MTST01200
EQUIP NUM: E-1780
OTHER MTS

D350-55090-0726



No Action Required

Report Comment

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FINAL DRIVE REAR LEFT
SERIAL NUMBER: MTST01200
EQUIP NUM: E-1790
OTHER MTS

D350-55090-0727



No Action Required

Report Comment

VisionLink® will be the new home for S-O-SSM Services fluid analysis. Begin the transition to VisionLink now - Sign up or log into vlcat.com to update your settings, manage your fleet, configure your jobsites (groups), and view your samples. The ability for users to submit samples, track samples, view and graph sample history, and download reports are coming to VisionLink soon.

FINAL DRIVE REAR LEFT

EQUIP NUM: E-1790

SERIAL NUMBER: MTST01200

D350-55090-0727

LABEL#: 256189857

SHOP JOB NUM : AB05150

SAMPLE SHIP TIME (days) : 4

JR. DAVIS CONSTRUCTION

RECEIVED DATE: 31-Mar-25

OTHER MTS

No Action Required

NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

Interp By: Anet Garcia
Interpreted On: 31-Mar-25

SAMPLE INFORMATION

	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
Sampled Date	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
Sample Id	D350-55090-0727	D350-54362-0650	D350-54263-2427	D350-54143-1152
Lab Date	31-Mar-25	27-Dec-24	19-Sep-24	22-May-24
Meter [Hr]	6126	5776	5477	5220
Meter On Fluid	1216	866	567	310
Fluid Brand	CAT	CAT	CAT	CAT
Fluid Weight	NULL	NULL	NULL	NULL
Fluid Type				
Fluid Change	Y	N	N	N
Filter Change	N	N	N	N
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

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

CONDITION / CONTAMINATION

	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
VISCOSITY (CENTISTOKES) ASTM D445				
V100 Viscosity at 100 C	25.10	24.00	24.40	24.80

INFRARED (UFM) ASTM E2412

	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
ST Soot	0	0	0	0
OXI Oxidation	5	5	5	5
SUL Sulfate By-Product	21	20	21	22
Sulfur Products	21	20	21	22
NIT Nitration	4	4	4	4

WEAR LEVELS / ADDITIVES

	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
ELEMENTAL ANALYSIS (PPM) ASTM D6185 [OIL] / ASTM D8130 [COOLANT]				
Cu Copper	0	0	0	0
Fe Iron	92	53	60	46
Cr Chromium	0	1	0	0
Al Aluminum	0	0	0	0
Pb Lead	0	0	0	0
Sn Tin	0	0	0	0
Si Silicon	19	12	15	13
Na Sodium	8	0	3	0
K Potassium	0	0	1	2
Mo Molybdenum	0	0	2	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	0	0	0	0
Ca Calcium	158	84	108	29
P Phosphorus	1446	700	1478	840
Zn Zinc	70	40	52	16
Mg Magnesium	1	0	2	0
Ba Barium	0	0	0	0
B Boron	175	119	163	143

WATER

	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
W Water	N	T	N	N

**FINAL DRIVE FRONT
RIGHT**

D350-55090-0729
 LABEL#: 256189471
 SHOP JOB NUM : AB05150
 SAMPLE SHIP TIME (days) : 4
JR. DAVIS CONSTRUCTION
 RECEIVED DATE: 31-Mar-25

EQUIP NUM: E-1790

SERIAL NUMBER: MTST01200

OTHER MTS

No Action Required

Interp By: Anet Garcia
 Interpreted On: 31-Mar-25

NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

SAMPLE INFORMATION

	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
Sampled Date	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
Sample Id	D350-55090-0729	D350-54362-0648	D350-54263-2425	D350-54143-1150
Lab Date	31-Mar-25	27-Dec-24	19-Sep-24	22-May-24
Meter [Hr]	6126	5776	5477	5220
Meter On Fluid	1216	866	567	310
Fluid Brand				
Fluid Weight	85W-140	85W-140	85W-140	85W-140
Fluid Type				
Fluid Change	Y	N	N	N
Filter Change	N	N	N	N
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

NORMAL WEAR METAL READINGS. DETECTED TRACE OF WATER IN SAMPLE BOTTLE. WILL MONITOR WITH SAMPLES.

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

CONDITION / CONTAMINATION

	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
VISCOSITY (CENTISTOKES) ASTM D445				
V100 Viscosity at 100 C	22.00	22.30	21.90	29.50

INFRARED (UFM) ASTM E2412

	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
ST Soot	0	2	0	0
OXI Oxidation	6	5	5	6
SUL Sulfate By-Product	20	20	21	22
Sulfur Products	20	20	21	22
NIT Nitration	4	6	4	4

WEAR LEVELS / ADDITIVES

	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
ELEMENTAL ANALYSIS (PPM) ASTM D6185 [OIL] / ASTM D8130 [COOLANT]				
Cu Copper	0	0	0	0
Fe Iron	29	71	20	15
Cr Chromium	0	1	0	0
Al Aluminum	0	0	1	0
Pb Lead	0	0	1	0
Sn Tin	0	0	0	0
Si Silicon	12	19	8	7
Na Sodium	8	0	1	0
K Potassium	1	1	1	3
Mo Molybdenum	0	0	2	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	1	0	0
Ca Calcium	687	352	551	254
P Phosphorus	1555	571	1501	891
Zn Zinc	303	142	261	122
Mg Magnesium	4	0	4	0
Ba Barium	0	0	0	0
B Boron	161	81	151	130

WATER

	27-Mar-25	23-Dec-24	13-Sep-24	20-May-24
W Water	N	T	N	N

FINAL DRIVE FRONT RIGHT
SERIAL NUMBER: MTST01200
EQUIP NUM: E-1790
OTHER MTS

D350-55090-0729



No Action Required

Report Comment

VisionLink® will be the new home for S-O-SSM Services fluid analysis. Begin the transition to VisionLink now - Sign up or log into vcat.com to update your settings, manage your fleet, configure your jobsites (groups), and view your samples. The ability for users to submit samples, track samples, view and graph sample history, and download reports are coming to VisionLink soon.