

ENGINE

N030-51351-0598
 LABEL#: 200752509
 SAMPLE SHIP TIME (days) : 7
GALENA CONTRACTORS
LTD
 RECEIVED DATE: 17-Dec-21

EQUIP NUM: EX137

DEERE 2654G

 **No Action Required**

SERIAL NUMBER: JD260025

Interp By: Peter Lewandowski
Interpreted On: 21-Dec-21

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

SAMPLE INFORMATION

	10-Dec-21	04-Nov-21	20-Sep-21	27-Jul-21
Sampled Date	10-Dec-21	04-Nov-21	20-Sep-21	27-Jul-21
Sample Id	N030-51351-0598	N030-51316-0506	N030-51271-0336	N030-51222-0227
Lab Date	17-Dec-21	12-Nov-21	28-Sep-21	10-Aug-21
Meter [Hr]	5216	4980	4690	4439
Comp Meter [Hr]	5216	4980	4690	4439
Meter On Fluid	236	290	251	268
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	15W-40	15W-40	15W-40	15W-40
Fluid Type	DURON SHP	DURON SHP	DURON SHP	DURON SHP
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Pressure Loop	U	U	U	U

PREVIOUS SAMPLE

WEAR METAL ANALYSIS INDICATES ACCEPTABLE WEAR RATE. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

CONDITION / CONTAMINATION

10-Dec-21 04-Nov-21 20-Sep-21 27-Jul-21

VISCOSITY (Centistokes)

V100	Viscosity at 100 C	11.5	14.70	14.4	14.3
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VISCOSITY (Centistokes)

V40	Viscosity at 40 C	78.8	108.9	109.1	108.2
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VISCOSITY INDEX

VI	Viscosity Index	138	139	135	135
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INFRARED (UFM)

ST	Soot	7	13	16	18
OXI	Oxidation	13	13	14	13
SUL	Sulfur Products	18	19	19	19
NIT	Nitration	5	6	6	6

ANTIFREEZE

A	Antifreeze	N	N	N	N
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FUEL

F	Fuel	N	N	N	N
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FUEL CONTENT (%)

PFc	Percent Fuel	0.40
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WATER

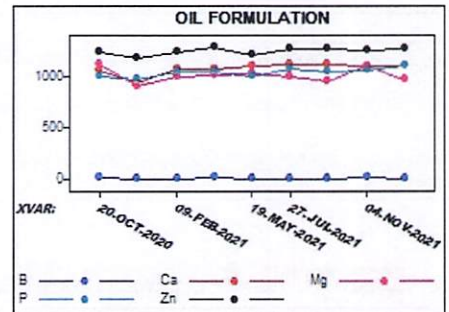
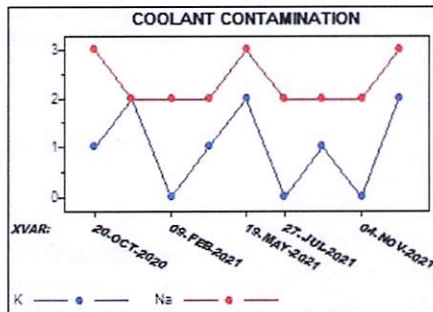
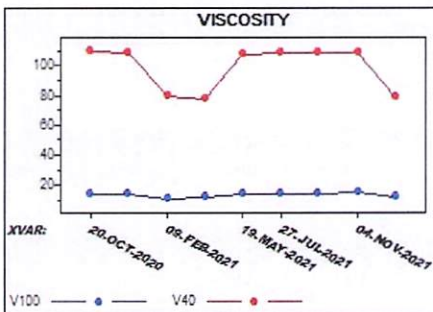
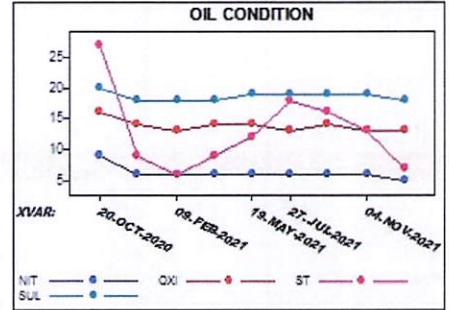
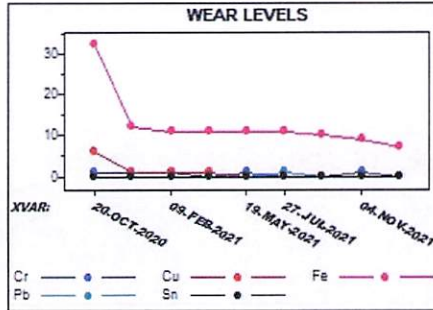
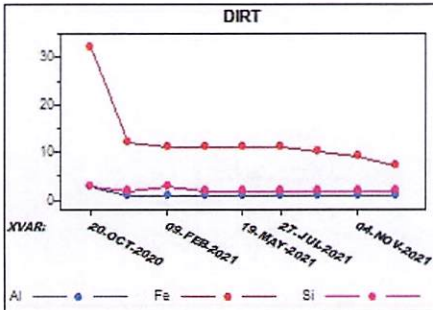
W	Water	N	N	N	N
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WEAR LEVELS / ADDITIVES

10-Dec-21 04-Nov-21 20-Sep-21 27-Jul-21

ELEMENTAL ANALYSIS (ppm)

	10-Dec-21	04-Nov-21	20-Sep-21	27-Jul-21	
Na	Sodium	3	2	2	2
K	Potassium	2	0	1	0
Si	Silicon	2	2	2	2
Al	Aluminum	1	1	1	1
Fe	Iron	7	9	10	11
Cr	Chromium	0	1	0	0
Pb	Lead	0	0	0	1
Cu	Copper	0	0	0	0
Sn	Tin	0	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
Zn	Zinc	1272	1254	1276	1271
Ca	Calcium	1107	1106	1122	1115
Mg	Magnesium	962	1107	956	1002
Ba	Barium	0	0	0	0
B	Boron	1	4	0	1
Mo	Molybdenum	62	58	59	62
P	Phosphorus	1108	1051	1044	1080



Report Comment

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJVUrs>. Access our online platform: <https://soswebmc.cat.com/cat-sos/samples>. Want to sign up for online portal?, Go Paperless? Or have any questions on SOS? Contact us 8:00am - 4:00pm MST M-F at SOS Support: 1-888-FINNING or oilsupport@finning.com.

ENGINE

EQUIP NUM: EX137

SERIAL NUMBER: JD260025

N030-51316-0506

LABEL#: 200781229

SAMPLE SHIP TIME (days) : 8

GALENA CONTRACTORS

LTD

RECEIVED DATE: 12-Nov-21

DEERE 2654G



No Action Required

Interp By: Fluid Interpreter

Interpreted On: 15-Nov-21

WEAR METAL ANALYSIS INDICATES ACCEPTABLE WEAR RATE. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

SAMPLE INFORMATION

	04-Nov-21	20-Sep-21	27-Jul-21	19-May-21
Sampled Date	04-Nov-21	20-Sep-21	27-Jul-21	19-May-21
Sample Id	N030-51316-0506	N030-51271-0336	N030-51222-0227	N030-51152-0709
Lab Date	12-Nov-21	28-Sep-21	10-Aug-21	01-Jun-21
Meter [Hr]	4980	4690	4439	4171
Comp Meter [Hr]	4980	4690	4439	4171
Meter On Fluid	290	251	268	273
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	15W-40	15W-40	15W-40	15W-40
Fluid Type	DURON SHP	DURON SHP	DURON SHP	DURON SHP
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Drain Loop	U	U	U	U

PREVIOUS SAMPLE

WEAR METAL ANALYSIS INDICATES ACCEPTABLE WEAR RATE. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.
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CONDITION / CONTAMINATION

	04-Nov-21	20-Sep-21	27-Jul-21	19-May-21
VISCOSITY (Centistokes)				
V100 Viscosity at 100 C	14.70	14.4	14.3	14.5
VISCOSITY (Centistokes)				
V40 Viscosity at 40 C	108.9	109.1	108.2	107.7

WEAR LEVELS / ADDITIVES

	04-Nov-21	20-Sep-21	27-Jul-21	19-May-21
ELEMENTAL ANALYSIS (ppm)				
Na Sodium	2	2	2	3
K Potassium	0	1	0	2
Si Silicon	2	2	2	2
Al Aluminum	1	1	1	1
Fe Iron	9	10	11	11
Cr Chromium	1	0	0	1
Pb Lead	0	0	1	0
Cu Copper	0	0	0	0
Sn Tin	0	0	0	0
Ni Nickel	0	0	0	1
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	0
V Vanadium	0	0	0	0
Zn Zinc	1254	1276	1271	1209
Ca Calcium	1106	1122	1115	1099
Mg Magnesium	1107	956	1002	1029
Ba Barium	0	0	0	0
B Boron	4	0	1	1
Mo Molybdenum	58	59	62	61
P Phosphorus	1051	1044	1080	990

VISCOSITY INDEX

VI Viscosity Index	139	135	135	138
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INFRARED (UFM)

ST Soot	13	16	18	12
OXI Oxidation	13	14	13	14
SUL Sulfur Products	19	19	19	19
NIT Nitration	6	6	6	6

ANTIFREEZE

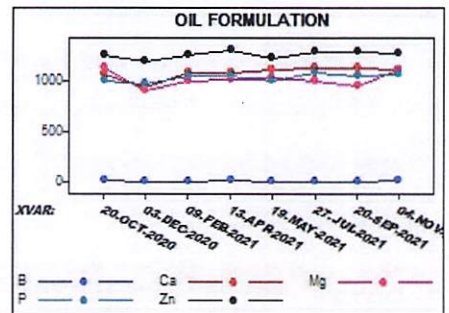
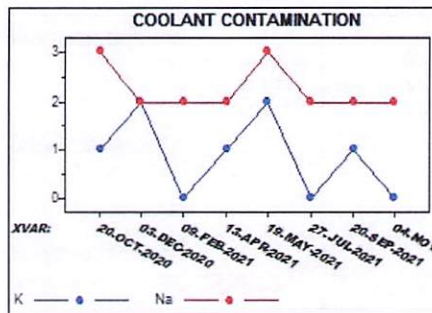
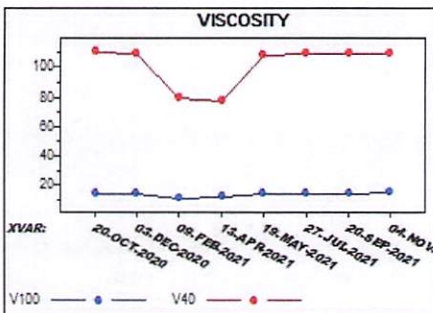
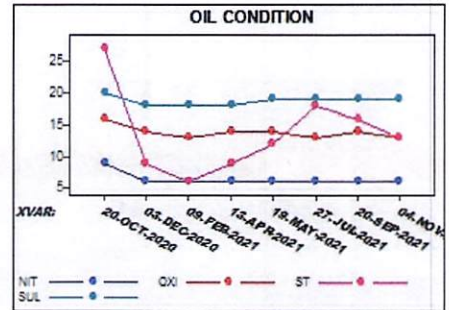
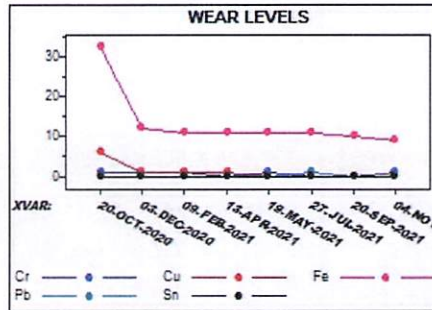
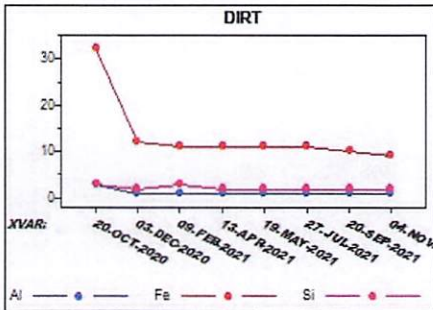
A Antifreeze	N	N	N	N
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FUEL

F Fuel	N	N	N	N
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WATER

W Water	N	N	N	N
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Report Comment

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJVUrs>. Access our online platform: <https://soswebmc.cat.com/cat-sos/samples>. Want to sign up for online portal?, Go Paperless? Or have any questions on SOS? Contact us 8:00am - 4:00pm MST M-F at SOS Support: 1-888-FINNING or oilsupport@finning.com.

ENGINE

EQUIP NUM: EX137

SERIAL NUMBER: JD260025

N030-51271-0336


LABEL#: 200768857

SAMPLE SHIP TIME (days) : 8

GALENA CONTRACTORS LTD

RECEIVED DATE: 28-Sep-21

DEERE 2654G

 **No Action Required**

**Interp By: Fluid Interpreter
Interpreted On: 29-Sep-21**

WEAR METAL ANALYSIS INDICATES ACCEPTABLE WEAR RATE. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

SAMPLE INFORMATION

	20-Sep-21	27-Jul-21	19-May-21	13-Apr-21
Sample Date	20-Sep-21	27-Jul-21	19-May-21	13-Apr-21
Sample Id	N030-51271-0336	N030-51222-0227	N030-51152-0709	N030-51112-0371
Lab Date	28-Sep-21	10-Aug-21	01-Jun-21	22-Apr-21
Meter [Hr]	4690	4439	4171	3898
Comp Meter [Hr]	4690	4439	4171	3898
Meter On Fluid	251	268	273	278
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	15W-40	15W-40	15W-40	10W-30
Fluid Type	DURON SHP	DURON SHP	DURON SHP	DURON SHP
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Kidney Loop	U	U	U	U

PREVIOUS SAMPLE

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

CONDITION / CONTAMINATION

	20-Sep-21	27-Jul-21	19-May-21	13-Apr-21
VISCOSITY (Centistokes)				
V100 Viscosity at 100 C	14.4	14.3	14.5	11.7
VISCOSITY (Centistokes)				
V40 Viscosity at 40 C	109.1	108.2	107.7	77.7

WEAR LEVELS / ADDITIVES

	20-Sep-21	27-Jul-21	19-May-21	13-Apr-21
ELEMENTAL ANALYSIS (ppm)				
Na Sodium	2	2	3	2
K Potassium	1	0	2	1
Si Silicon	2	2	2	2
Al Aluminum	1	1	1	1
Fe Iron	10	11	11	11
Cr Chromium	0	0	1	0
Pb Lead	0	1	0	0
Cu Copper	0	0	0	1
Sn Tin	0	0	0	0
Ni Nickel	0	0	1	1
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	0
V Vanadium	0	0	0	0
Zn Zinc	1276	1271	1209	1280
Ca Calcium	1122	1115	1099	1078
Mg Magnesium	956	1002	1029	1016
Ba Barium	0	0	0	0
B Boron	0	1	1	2
Mo Molybdenum	59	62	61	61
P Phosphorus	1044	1080	990	1044

VISCOSITY INDEX

VI Viscosity Index	135	135	138	144
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INFRARED (UFM)

ST Soot	16	18	12	9
OXI Oxidation	14	13	14	14
SUL Sulfur Products	19	19	19	18
NIT Nitration	6	6	6	6

ANTIFREEZE

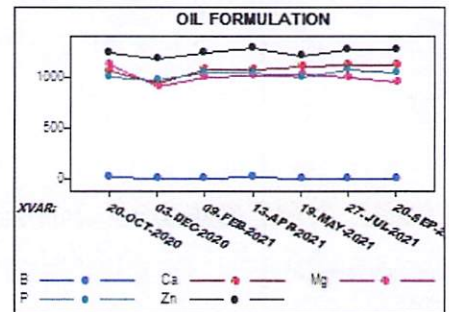
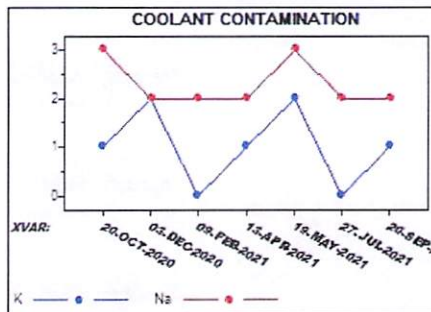
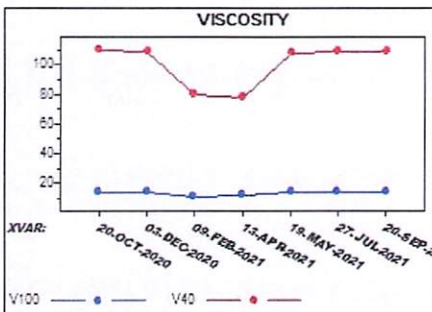
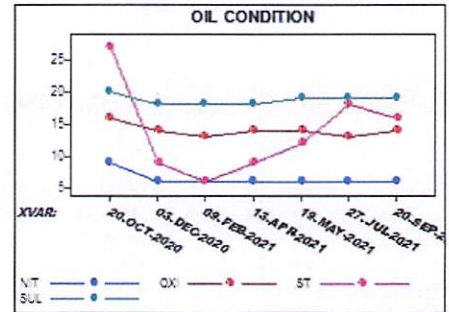
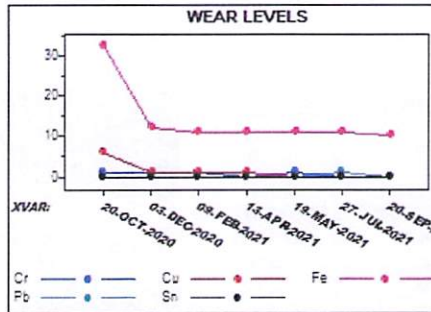
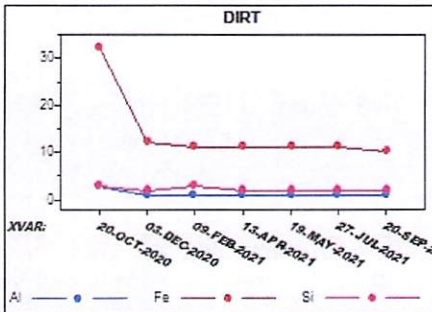
A Antifreeze	N	N	N	N
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FUEL

F Fuel	N	N	N	N
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WATER

W Water	N	N	N	N
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Report Comment

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ENGINE

EQUIP NUM: EX137

SERIAL NUMBER: JD260025

N030-51222-0227

LABEL#: 200717035

SAMPLE SHIP TIME (days) : 14

GALENA CONTRACTORS LTD

RECEIVED DATE: 10-Aug-21

DEERE 2654G



No Action Required

Interp By: Gregory Scribner

Interpreted On: 11-Aug-21

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

SAMPLE INFORMATION

	27-Jul-21	19-May-21	13-Apr-21	09-Feb-21
Sampled Date	27-Jul-21	19-May-21	13-Apr-21	09-Feb-21
Sample Id	N030-51222-0227	N030-51152-0709	N030-51112-0371	N030-51048-0514
Lab Date	10-Aug-21	01-Jun-21	22-Apr-21	17-Feb-21
Meter [Hr]	4439	4171	3898	3620
Comp Meter [Hr]	4439	4171	3898	3620
Meter On Fluid	268	273	278	225
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	15W-40	15W-40	10W-30	10W-30
Fluid Type	DURON SHP	DURON SHP	DURON SHP	DURON SHP
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Kidney Loop	U	U	U	U

PREVIOUS SAMPLE

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

CONDITION / CONTAMINATION

		27-Jul-21	19-May-21	13-Apr-21	09-Feb-21
VISCOSITY (Centistokes)					
V100	Viscosity at 100 C	14.3	14.5	11.7	11.3
VISCOSITY (Centistokes)					
V40	Viscosity at 40 C	108.2	107.7	77.7	79.1

WEAR LEVELS / ADDITIVES

	27-Jul-21	19-May-21	13-Apr-21	09-Feb-21	
ELEMENTAL ANALYSIS (ppm)					
Na	Sodium	2	3	2	2
K	Potassium	0	2	1	0
Si	Silicon	2	2	2	3
Al	Aluminum	1	1	1	1
Fe	Iron	11	11	11	11
Cr	Chromium	0	1	0	1
Pb	Lead	1	0	0	0
Cu	Copper	0	0	1	1
Sn	Tin	0	0	0	0
Ni	Nickel	0	1	1	1
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	1271	1209	1280	1248
Ca	Calcium	1115	1099	1078	1072
Mg	Magnesium	1002	1029	1016	1002
Ba	Barium	0	0	0	0
B	Boron	1	1	2	1
Mo	Molybdenum	62	61	61	60
P	Phosphorus	1080	990	1044	1036

VISCOSITY INDEX

		27-Jul-21	19-May-21	13-Apr-21	09-Feb-21
VI	Viscosity Index	135	138	144	133

INFRARED (UFM)

		27-Jul-21	19-May-21	13-Apr-21	09-Feb-21
ST	Soot	18	12	9	6
OXI	Oxidation	13	14	14	13
SUL	Sulfur Products	19	19	18	18
NIT	Nitration	6	6	6	6

ANTIFREEZE

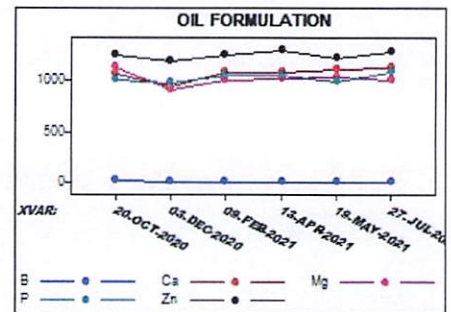
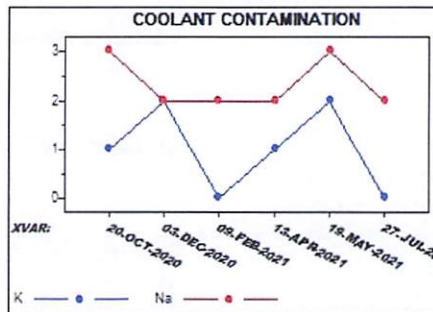
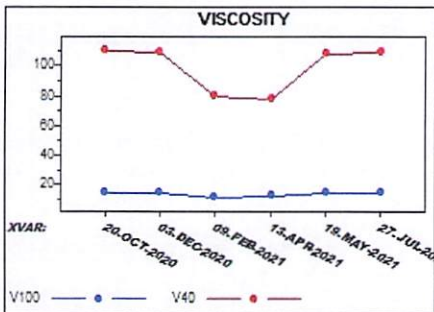
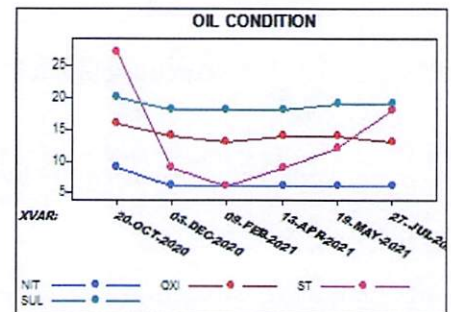
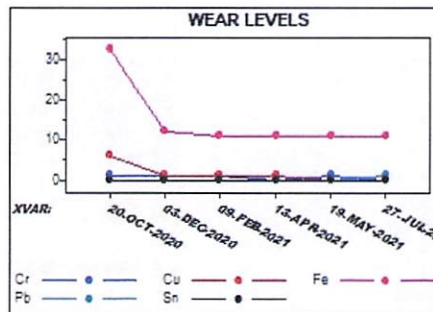
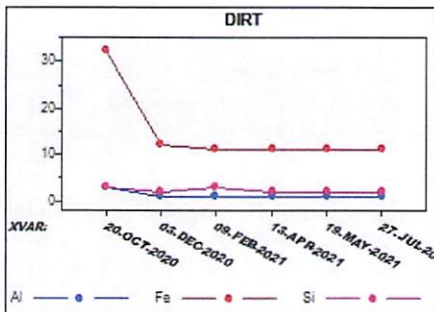
		27-Jul-21	19-May-21	13-Apr-21	09-Feb-21
A	Antifreeze	N	N	N	N

FUEL

		27-Jul-21	19-May-21	13-Apr-21	09-Feb-21
F	Fuel	N	N	N	N

WATER

		27-Jul-21	19-May-21	13-Apr-21	09-Feb-21
W	Water	N	N	N	N



Report Comment

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ENGINE

EQUIP NUM: EX137

SERIAL NUMBER: JD260025

N030-51152-0709

LABEL#: 200719946

SHOP JOB NUM :

SAMPLE SHIP TIME (days) : 13

GALENA CONTRACTORS LTD

DEERE 2654G

No Action Required

Interp By: Gregory Scribner

Interpreted On: 02-Jun-21

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

SAMPLE INFORMATION

	19-May-21	13-Apr-21	09-Feb-21	03-Dec-20
Sample Id	N030-51152-0709	N030-51112-0371	N030-51048-0514	N030-50349-0800
Lab Date	01-Jun-21	22-Apr-21	17-Feb-21	14-Dec-20
Meter [Hr]	4171	3898	3620	3392
Comp Meter [Hr]	4171	3898	3620	3392
Meter On Fluid	273	278	225	227
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	15W-40	10W-30	10W-30	15W-40
Fluid Type	DURON SHP	DURON SHP	DURON SHP	DURON HP
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Kidney Loop	U	U	U	U

PREVIOUS SAMPLE

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

CONDITION / CONTAMINATION

	19-May-21	13-Apr-21	09-Feb-21	03-Dec-20
VISCOSITY (Centistokes)				
V100 Viscosity at 100 C	14.5	11.7	11.3	14.5
VISCOSITY (Centistokes)				
V40 Viscosity at 40 C	107.7	77.7	79.1	108.9

WEAR LEVELS / ADDITIVES

	19-May-21	13-Apr-21	09-Feb-21	03-Dec-20
ELEMENTAL ANALYSIS (ppm)				
Na Sodium	3	2	2	2
K Potassium	2	1	0	2
Si Silicon	2	2	3	2
Al Aluminum	1	1	1	1
Fe Iron	11	11	11	12
Cr Chromium	1	0	1	1
Pb Lead	0	0	0	0
Cu Copper	0	1	1	1
Sn Tin	0	0	0	0
Ni Nickel	1	1	1	0
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	0
V Vanadium	0	0	0	0
Zn Zinc	1209	1280	1248	1185
Ca Calcium	1099	1078	1072	936
Mg Magnesium	1029	1016	1002	911
Ba Barium	0	0	0	0
B Boron	1	2	1	1
Mo Molybdenum	61	61	60	56
P Phosphorus	990	1044	1036	972

VISCOSITY INDEX

VI Viscosity Index	138	144	133	136
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INFRARED (UFM)

ST Soot	12	9	6	9
OXI Oxidation	14	14	13	14
SUL Sulfur Products	19	18	18	18
NIT Nitration	6	6	6	6

ANTIFREEZE

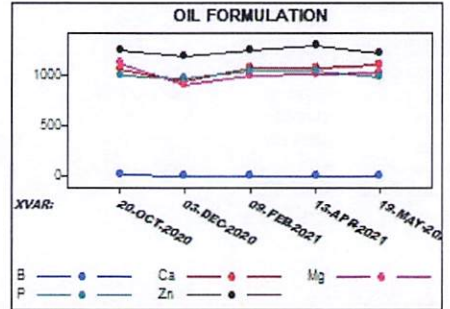
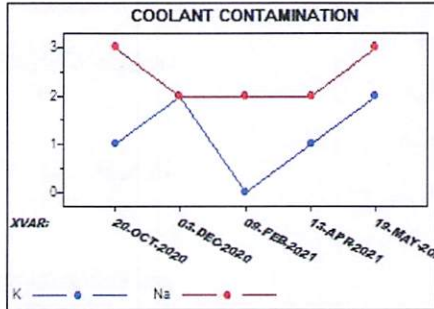
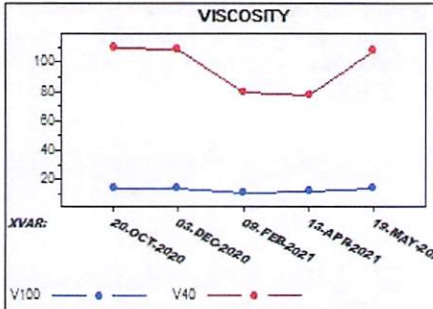
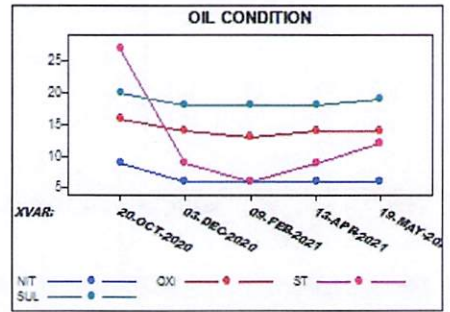
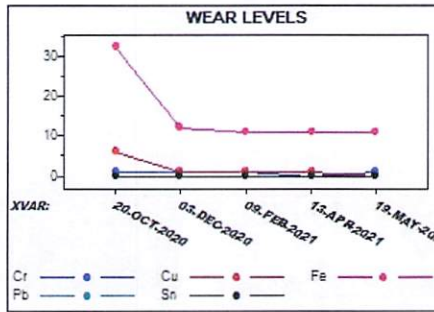
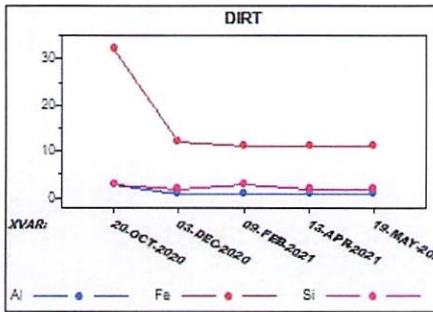
A Antifreeze	N	N	N	N
--------------	---	---	---	---

FUEL

F Fuel	N	N	N	N
--------	---	---	---	---

WATER

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



Report Comment

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJVUrs>. Access our online platform: <https://soswebmc.cat.com/cat-sos/samples>. Want to sign up for online portal?, Go Paperless? Or have any questions on SOS? Contact us 8:00am - 4:00pm MST M-F at SOS Support: 1-888-FINNING or oilsupport@finning.com.

ENGINE

EQUIP NUM: EX137

SERIAL NUMBER: JD260025

N030-51112-0371

LABEL#: 200717377

SHOP JOB NUM :

SAMPLE SHIP TIME (days) : 9

GALENA CONTRACTORS LTD

DEERE 2654G

No Action Required

Interp By: Peter Leggo
Interpreted On: 23-Apr-21

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

SAMPLE INFORMATION

	13-Apr-21	09-Feb-21	03-Dec-20	20-Oct-20
Sampled Date	13-Apr-21	09-Feb-21	03-Dec-20	20-Oct-20
Sample Id	N030-51112-0371	N030-51048-0514	N030-50349-0800	N030-50303-0438
Lab Date	22-Apr-21	17-Feb-21	14-Dec-20	29-Oct-20
Meter [Hr]	3898	3620	3392	3166
Comp Meter [Hr]	3898	3620	3392	3166
Meter On Fluid	278	225	227	300
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	
Fluid Weight	10W-30	10W-30	15W-40	15W-40
Fluid Type	DURON SHP	DURON SHP	DURON HP	
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Wash Loop	U	U	U	U

PREVIOUS SAMPLE

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

CONDITION / CONTAMINATION

13-Apr-21 09-Feb-21 03-Dec-20 20-Oct-20

VISCOSITY (Centistokes)

V100	Viscosity at 100 C	11.7	11.3	14.5	14.3
------	--------------------	------	------	------	------

VISCOSITY (Centistokes)

V40	Viscosity at 40 C	77.7	79.1	108.9	109.2
-----	-------------------	------	------	-------	-------

VISCOSITY INDEX

VI	Viscosity Index	144	133	136	133
----	-----------------	-----	-----	-----	-----

INFRARED (UFM)

ST	Soot	9	6	9	27
OXI	Oxidation	14	13	14	16
SUL	Sulfur Products	18	18	18	20
NIT	Nitration	6	6	6	9

ANTIFREEZE

A	Antifreeze	N	N	N	N
---	------------	---	---	---	---

FUEL

F	Fuel	N	N	N	N
---	------	---	---	---	---

WATER

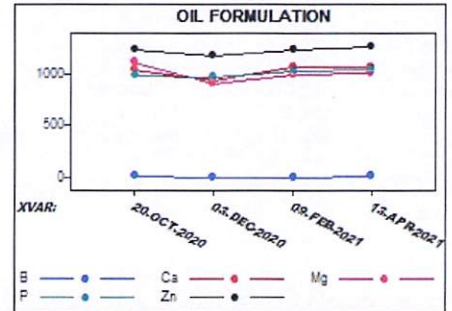
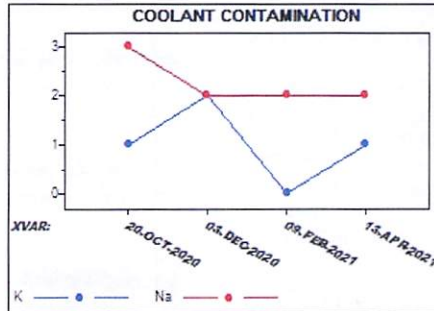
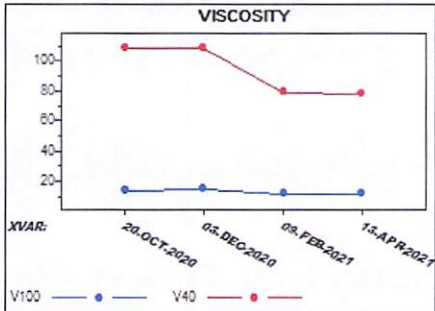
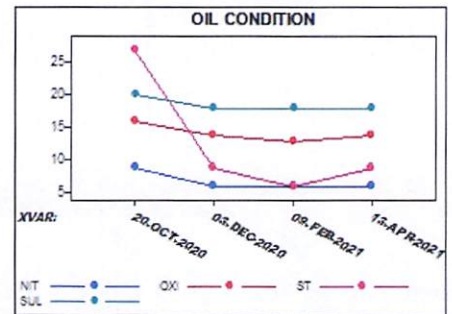
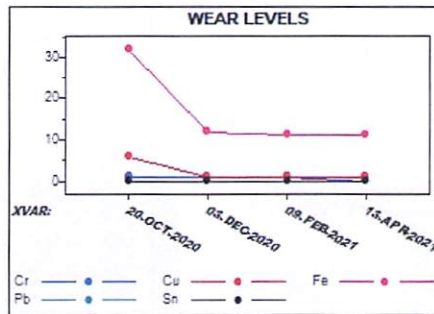
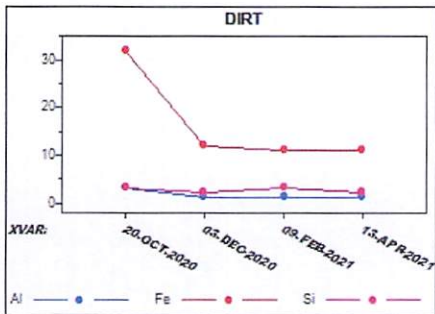
W	Water	N	N	N	N
---	-------	---	---	---	---

WEAR LEVELS / ADDITIVES

13-Apr-21 09-Feb-21 03-Dec-20 20-Oct-20

ELEMENTAL ANALYSIS (ppm)

	13-Apr-21	09-Feb-21	03-Dec-20	20-Oct-20
Na Sodium	2	2	2	3
K Potassium	1	0	2	1
Si Silicon	2	3	2	3
Al Aluminum	1	1	1	3
Fe Iron	11	11	12	32
Cr Chromium	0	1	1	1
Pb Lead	0	0	0	0
Cu Copper	1	1	1	6
Sn Tin	0	0	0	0
Ni Nickel	1	1	0	0
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	0
V Vanadium	0	0	0	0
Zn Zinc	1280	1248	1185	1243
Ca Calcium	1078	1072	936	1054
Mg Magnesium	1016	1002	911	1119
Ba Barium	0	0	0	0
B Boron	2	1	1	3
Mo Molybdenum	61	60	56	61
P Phosphorus	1044	1036	972	991



Report Comment

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ENGINE

EQUIP NUM: EX137

SERIAL NUMBER: JD260025

N030-51048-0514

LABEL#: 200636993

SHOP JOB NUM :

SAMPLE SHIP TIME (days) : 8

GALENA CONTRACTORS LTD

DEERE ZZZ_DEERE



No Action Required

Interp By: Greg Eyre

Interpreted On: 18-Feb-21

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

SAMPLE INFORMATION

	09-Feb-21	03-Dec-20	20-Oct-20
Sample Id	N030-51048-0514	N030-50349-0800	N030-50303-0438
Lab Date	17-Feb-21	14-Dec-20	29-Oct-20
Meter [Hr]	3620	3392	3166
Comp Meter [Hr]	3620	3392	3166
Meter On Fluid	225	227	300
Fluid Brand	PETRO-CAN	PETRO-CAN	
Fluid Weight	10W-30	15W-40	15W-40
Fluid Type	DURON SHP	DURON HP	
Fluid Change	Y	Y	Y
Filter Change	Y	Y	Y
Drain Loop	U	U	U

PREVIOUS SAMPLE

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

CONDITION / CONTAMINATION

		09-Feb-21	03-Dec-20	20-Oct-20
VISCOSITY (Centistokes)				
V100	Viscosity at 100 C	11.3	14.5	14.3
WATER				
W	Water	N	N	N

WEAR LEVELS / ADDITIVES

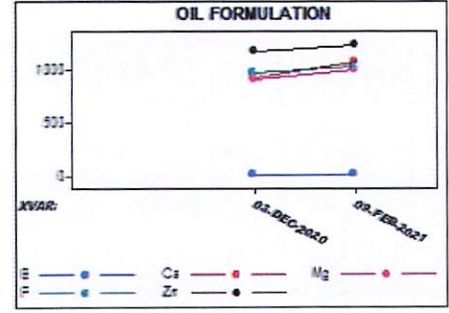
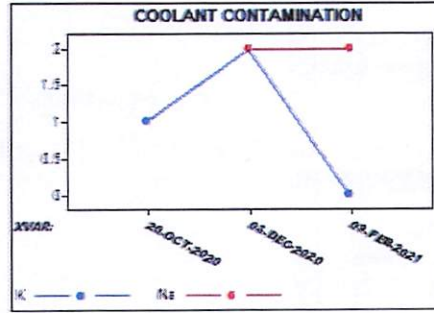
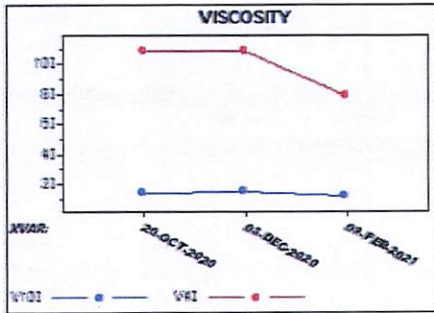
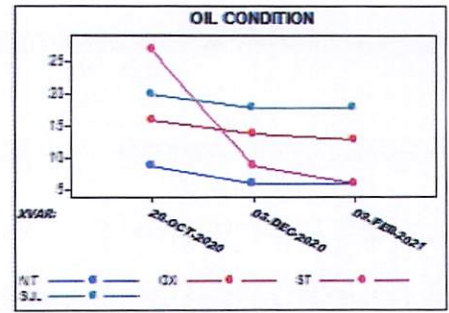
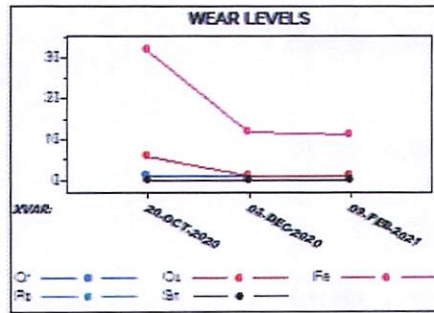
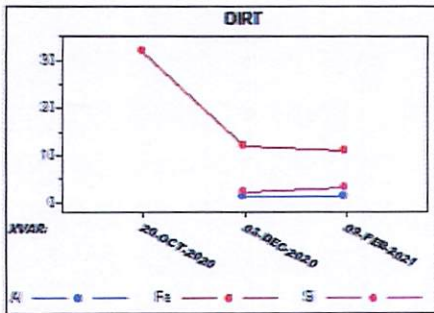
		09-Feb-21	03-Dec-20	20-Oct-20
ELEMENTAL ANALYSIS (ppm)				
Na	Sodium	2	2	3
K	Potassium	0	2	1
Si	Silicon	3	2	3
Al	Aluminum	1	1	3
Fe	Iron	11	12	32
Cr	Chromium	1	1	1
Pb	Lead	0	0	0
Cu	Copper	1	1	6
Sn	Tin	0	0	0
Ni	Nickel	1	0	0
Ag	Silver	0	0	0
Ti	Titanium	0	0	0
V	Vanadium	0	0	0
Zn	Zinc	1248	1185	1243
Ca	Calcium	1072	936	1054
Mg	Magnesium	1002	911	1119
Ba	Barium	0	0	0
B	Boron	1	1	3
Mo	Molybdenum	60	56	61
P	Phosphorus	1036	972	991

		09-Feb-21	03-Dec-20	20-Oct-20
VISCOSITY (Centistokes)				
V40	Viscosity at 40 C	79.1	108.9	109.2
VISCOSITY INDEX				
VI	Viscosity Index	133	136	133

		09-Feb-21	03-Dec-20	20-Oct-20
INFRARED (UFM)				
ST	Soot	6	9	27
OXI	Oxidation	13	14	16
SUL	Sulfur Products	18	18	20
NIT	Nitration	6	6	9

		09-Feb-21	03-Dec-20	20-Oct-20
FUEL				
F	Fuel	N	N	N

		09-Feb-21	03-Dec-20	20-Oct-20
ANTIFREEZE				
A	Antifreeze	N	N	N



Report Comment

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJVUrs>. Access our online platform: <https://soswebmc.cat.com/cat-sos/samples>. Want to sign up for online portal?, Go Paperless? Or have any questions on SOS? Contact us 8:00am - 4:00pm MST M-F at SOS Support: 1-888-FINNING or oilsupport@finning.com.

FINNING

FINNING CANADA LTD. - Fluid Analysis Laboratory, 10910-170th Street, Edmonton, AB, T5S 1H6, CANADA

PHONE: 1-888 FINNING (346-6464)

Email: digitalservices@finning.com Web: www.finning.com

CONTACT INFORMATION

KEVIN CARTER
 GALENA CONTRACTORS LTD
 BOX 70 - 100 Mill Rd
 NAKUSP, BC
 V0G 1R0
 PHONE: 2502654100
 FAX: 2502653831
 Email:

Interp By: Peter Leggo

EQUIPMENT

EQUIP NUM: EX137
 SERIAL NUMBER: JD260025
 MODEL : ZZZ_DEERE
 MANUFACTURER : DEERE
 COMPANY NAME : GALENA CONTRACTORS LTD
 JOB SITE :
 AREA:
 REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE
 COMP SERIAL NUM:
 COMPARTMENT MODEL :
 LABEL#: 200573946
 SHOP JOB NUM :
 SAMPLE TYPE: OIL
 SAMPLE SHIP TIME (days) : 9
 SAMPLE LOCATION :

**No Action
 Required**

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

LAB #

N030-50303-0438

PROCESS 29-Oct-20
 DATE

WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Na	K	Si	Al	Fe	Cr	Pb	Cu	Sn	Ni	Ag	Ti	V	Zn	Ca	Mg	Ba	B	Mo	P
20-Oct-20	N030-50303-0438	3166	300	Y	Y	3	1	3	3	32	1	0	6	0	0	0	0	0	1243	1054	1119	0	3	61	991

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	A	F
20-Oct-20	N030-50303-0438	3166	300			15W-40	Y	Y	14.3	109.2	133	27	16	20	9	N	N

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	W
20-Oct-20	N030-50303-0438	Y	Y	N

FIRST OIL SAMPLE

A = Antifreeze, Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

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 a component thereof.

EX-137
AUG-2022

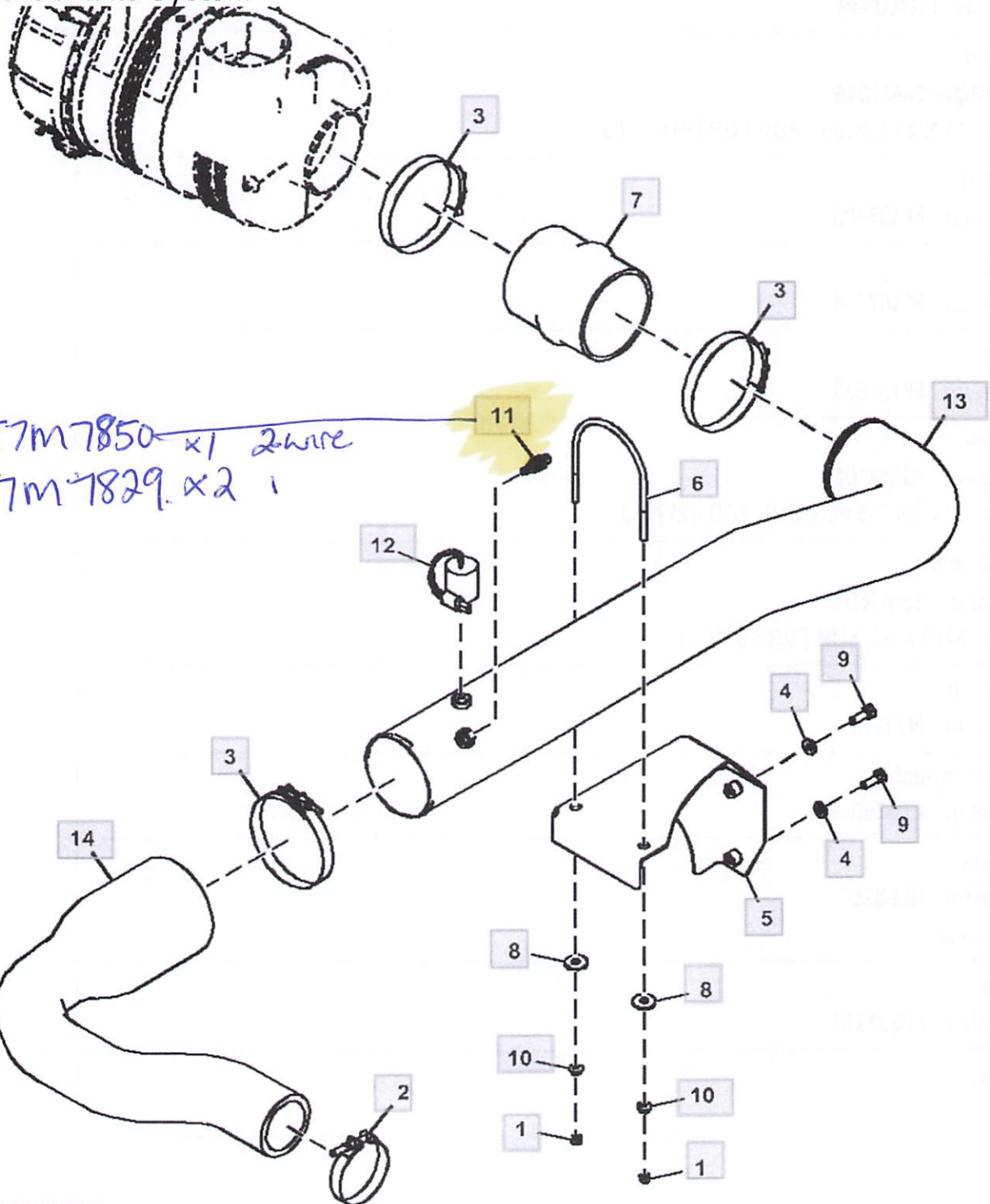


JOHN DEERE

Parts List

Air Cleaner Hoses (Engine 6068HT130-DZ105606) - ST861493

2654G Forestry Swing Machine (PIN: 1FF2654G__D260001-) (PIN: 1FF2654G__C260001-) - PC15063 > 5 Engine Auxiliary System > 0520 Intake System



plug 57M7850 x1 2 wire
PINS 57M7829 x2 1

Part	Quantity Required
1 - Nut Part Number : 14H785 Remarks : 5/16"	2
2 - Clamp Part Number : 4263765 Remarks : SUB FOR 4285233	1
3 - Hose Clamp Part Number : AT53439	3
4 - Washer Part Number : 24M7346 Remarks : 11 X 20 X 2 mm, SUB FOR DH400703	2
5 - Bracket Part Number : FF107503	1
6 - U-Bolt Part Number : FF107504	1
7 - Isolator Part Number : FF107523	1
8 - Washer Part Number : 24M7101 Remarks : 11 X 34 X 3 mm, SUB FOR J217083	2
9 - Cap Screw Part Number : 19M7662 Remarks : M10 X 30, SUB FOR J901030	2
10 - Lock Nut Part Number : N10213	2
11 - Thermocouple Part Number : RE525016	1
12 - Sensor Part Number : RE68255 Remarks : Air	1
13 - Tube Part Number : FF504918	1
14 - Tube Part Number : FF505636	1

Galena Contractors Ltd. Equipment Inspection

Customer Name: <u>Galena</u>	Unit Hours: 6090 <u>6090 HRS</u>	Unit #: <u>EX137</u>
Make: <u>John Deere</u>	Model: <u>2654 LS</u>	Serial #: <u>1FF2654GC JD 26002</u>
Inspection Date: <u>June 20, 2020</u>	Inspected by: <u>Andrew Likness</u>	Location: <u>@Shop</u>

Completed / Performs to Standard Requires Service

Comments

SAFETY

ATTENTION!

ALL SAFETY INFORMATION, WARNINGS AND INSTRUCTIONS MUST BE READ AND UNDERSTOOD BEFORE YOU PERFORM ANY OPERATION OR MAINTENANCE PROCEDURE. ONLY A QUALIFIED PERSON HAVING THE NECESSARY TRAINING, SKILLS AND TOOLING SHOULD PERFORM THESE FUNCTIONS.

<input checked="" type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------

ENGINE

Visuals

- ~ Check engine mount and crankshaft vibration damper for damage, wear, loose bolts and condition of rubber.
- ~ Inspect engine compartment for leaks and trash build-up.

<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

SOS Samples

- ~ Take Standard SOS Sample from engine oil.

N/A

<input checked="" type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------

Fluid / Filters

- ~ Change engine oil and filter(s).
- ~ Clean engine crankcase breather.

N/A

<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Diagnostics

- ~ Check engine performance against factory specifications and measure/record all readings. High and low idle rpm, full load rpm. Check engine oil pressure at high and low idle with oil at operating temperature.

N/A

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

Adjustments

- ~ Check / adjust engine valve lash.

N/A

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

} 250 HR Service Due 69 HRS.

AIR INDUCTION & EXH SYS

Visuals

- ~ Inspect primary and secondary air intake filter elements; clean or advise if replacement is required. Reset air filter indicator(s) a required.

N/A

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

FUEL SYSTEM

Visuals

- ~ Inspect fuel tank and lines for damage and leaks.

<input checked="" type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------

Fluid / Filters

- ~ Clean or replace primary fuel filter element(s). Change secondary fuel filter element(s). Drain water and sediment from water separator and replace element(s) if required.
- ~ Clean fuel tank cap and fill screen.
- ~ Drain water and sediment from fuel tank.

<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Completed
(Performs
to
Standard) Requires
Service

Comments

ENGINE COOLING SYSTEM

Visuals

~ Inspect condition of the serpentine belt. Check the following: condition of pulley grooves, idler pulley bearings, and correct operation of all moving parts.

SOS Samples

~ Take Coolant Analysis SOS Sample from the cooling system.

N/A

ELECTRIC SYSTEM

Operational

~ If equipped with an ether starting aid system, check operation. Check electrical starting and charging system.

Visuals

~ Inspect cables and retainers for tightness, Clean batteries and terminals.

~ Inspect for damaged, burnt out or broken lamps and fuses. Check for frayed or damaged wiring.

Fluid Levels

~ Check electrolyte level in each battery cell (conventional and low maintenance batteries only).

N/A

FINAL DRIVE

SOS Samples

~ Take Standard SOS Sample (includes large particle detection) from final drives.

N/A

Fluid Levels

~ Inspect final drives for leaks and check oil levels.

Fluid / Filters

Change final drive oils. Clean oil drain plug.

N/A

UNDERCARRIAGE

Visuals

~ Inspect track links and bushings for cracks.

~ Inspect track roller frames for leaks, damage or cracks.

~ Inspect track surface of carrier rollers, track rollers, idlers wheels, track shoes and drive sprockets for leaks, wear and loose or missing mounting bolts.

new Rollers
Idlers
Tracks
Sprockets @ 900HRS

TRACK ASSEMBLY

Visuals

~ Check tracks for proper adjustment.

Completed /Performs to Standard Requires Service

Comments

HYDRAULIC SYSTEM

Visuals

- ~ Inspect hydraulic cylinders for damage, leaks and loose or missing hardware.
- ~ Inspect hydraulic tank area for damage and leaks.
- ~ Inspect hydraulic cooler for leaks and loose or missing hardware. Check for damage and dirt or trash build-up.
- ~ Inspect hydraulic fittings, hoses and lines for damage, leaks and loose or missing hardware.

SOS Samples

- ~ Take Particle Count Analysis SOS sample from the hydraulic system. At the 2000 hour service intervals a Hydraulic Fluid Condition Analysis SOS Sample (incl. particle count) is recommended to help determine if the hydraulic oil change is required.

Fluid Levels

- ~ Check hydraulic tank oil level.

Fluid / Filters

- ~ To determine if the recommended hydraulic oil change is required, review SOS analysis and inspect used hydraulic element(s) for contamination.
- ~ Change pilot and case drain hydraulic filter elements. Inspect/clean hydraulic filter screen, o-ring seals and pressure cap.
- ~ Change hydraulic system filter element(s). Inspect/clean hydraulic filter screen, o-ring seals and pressure cap.

Diagnostics

- ~ Perform Hydraulic Performance Analysis. Test/adjust all relief valves and test implement speed/operation.
- Measure/record hydraulic system cycle times and drift rates.

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Re-Sealed tool cylinder @ Nags

<input checked="" type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------

Replace hose & Bucket cylinder Rod End

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

N/A

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

<input checked="" type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------

TOP up oil after changing Cylinder

N/A

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

N/A

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

N/A

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

N/A

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

N/A

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

SWING DRIVE

SOS Samples

- ~ Take Standard SOS Sample (includes large particle detection) from swing drive(s).

Fluid Levels

- ~ Inspect swing drive(s) for leaks and check oil level.

Fluid / Filters

- ~ Change swing drive oil(s). Clean oil drain plug.

N/A

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

<input checked="" type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------

N/A

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

IMPLEMENTS

Visuals

- ~ Inspect all processor rollers and cables.
- ~ Inspect buncher saw head and saw blade.
- ~ Inspect skidder arch jib grapple.
- ~ Inspect power grapple - all aspects.
- ~ Inspect implement linkage and bushings for wear and adequate lubrication; grease as required. Inspect implement pin clearances.
- ~ Inspect implement control linkage for cracks.
- ~ Inspect implement for leaks, cracks, damage and loose guarding. Clean debris build-up.

N/A

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

N/A

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

N/A

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

N/A

<input checked="" type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------

<input checked="" type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------

Change thumb H-Block line Bore Quick Attach by Don.

Completed /Performs to Standard Requires Service

Comments

FRAME

Visuals

- ~ Inspect the swing internal gear teeth for damage and wear. Inspect for grease contamination and adequate lubrication.
- ~ Inspect swing bearing clearance.

Lube / Grease

- ~ Lubricate swing bearing.

<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

BODY

Visuals

- ~ Check condition and cleanliness of walkways, steps and handhlds.
- ~ Inspect covers and guardings for damage and loose or missing hardware.

<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Belly fans + Catwalks Bent.

OPERATOR STATION

Operational

- ~ If equipped, test operation of air conditioner. Regardless of the season, operate the air conditioner for a few minutes at least once a week to rotate the compressor.
- ~ If equipped, test the travel alarm for proper operation.
- ~ Check implement controls, indicators and gauges for proper operation. If required, check and record logged faults from the electronic control systems.

Visuals

- ~ Inspect the operator's compartment for cleanliness.
- ~ If equipped, inspect air conditioner condenser core for leaks, bent fins and plugging. Clean evaporator coil.
- ~ Inspect cab air filter(s); clean as required.
- ~ Inspect seat belt and mounting for wear, damage and correct operation. Check the dates on the seat belt; must be within 3 years of installation and 5 years of manufacture.

Adjustments

- ~ Input updated Filter/Fluid Maintenance information into operator monitoring system.

<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

N/A

Changed Cab Filters x 2.

CANOPY

Lube / Grease

- ~ The escape hatch bolts are to be removed and re-installed after applying anti-seize.

<input checked="" type="checkbox"/>	<input type="checkbox"/>
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ROOF HATCH

Lube / Grease

- ~ The escape hatch must be removed and a re-application of silicone grease is to be done.

<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Completed / Performs to Standard Requires Service

Comments

ROFS / FOPS CAB

Visuals

~ Inspect condition of FOPS, ROPS or TOPS for damage and loose or missing hardware.

✓	
---	--

MISCELLANEOUS

Visuals

~ Check that warning labels are readable.

N/A	
-----	--

~ If equipped, inspect condition of GMS (Product Link) antenna. Insure that antenna whip and base is not damaged and antenna whip is pointing upward. Insure that 2 wires from the base are firmly attached. Replace the antenna if it is cracked or broken.

N/A	
N/A	

~ Cut open used filter elements and inspect for foreign material as required.

TRANSMISSION

~ Operation in all gears, system pump PSI, condition of oil (SOS), oil coolers and oil leaks.

N/A	
-----	--

DRIVE TRAIN

~ F&R diff operational noises, check diff mag plugs, diff oil condition, driveline u-joints, transfer case oil condition and axle hsg mounting bolts.

N/A	
-----	--

STEERING SYSTEM

~ Operation, oil leaks, center pins/bushings, linkage, kingpins, ball joints and tie rod.

N/A	
-----	--

BRAKE SYSTEM

~ Operation/noises, leaks and emergency operation.

~ Front lining / rotor or drum

~ Rear lining / rotor or drum

N/A	
N/A	
N/A	

TIRES AND WHEELS

~ Left front condition

~ Right front condition

~ Left rear condition

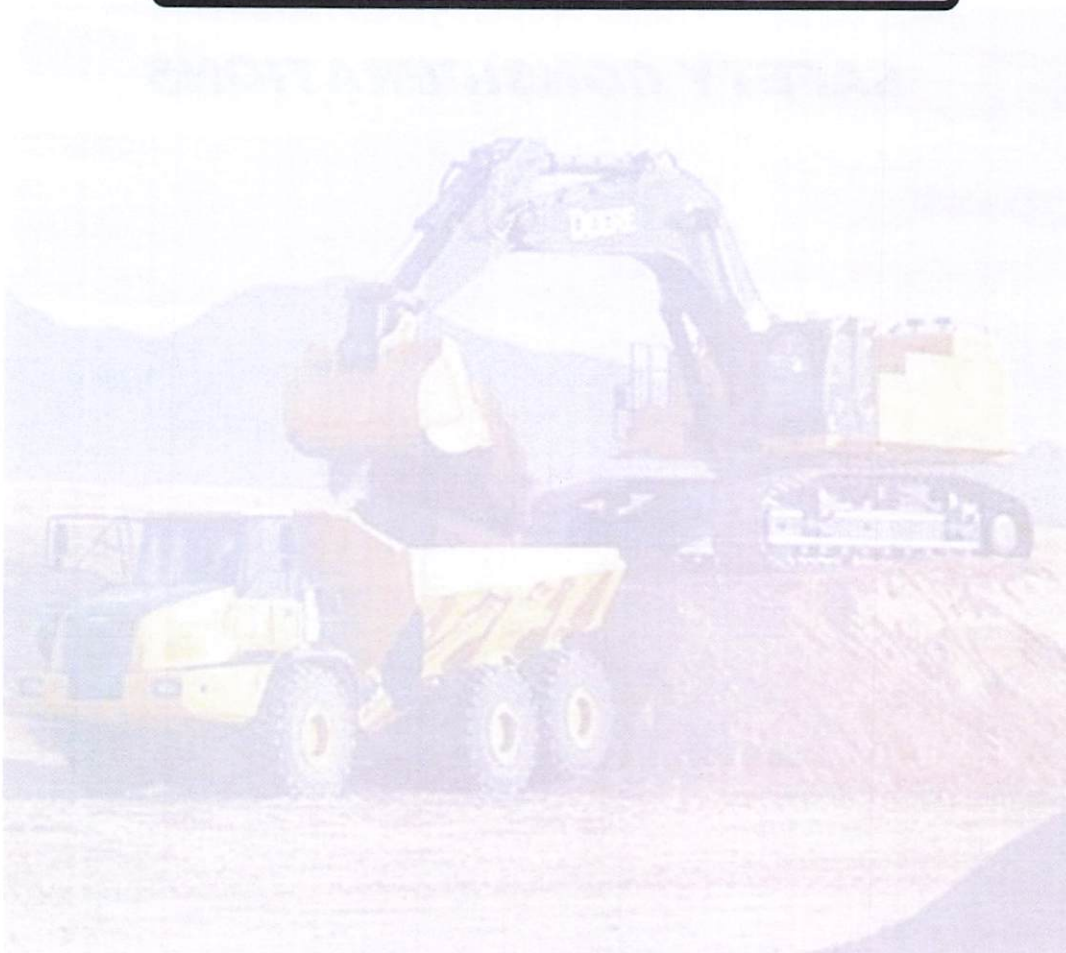
~ Right rear condition

N/A	
N/A	
N/A	

ORIGINAL Bucket 42" 4" Teeth

BKT, DIG, ES, 42, 250SER LUG, 1.38 CU. YD.

Serial No.	561455 and up
Part No.	1018001-04200-D4
Class-Model	EX0250
Machine	BDES42
Weight (lb)	2460



FOR ALL YOUR PARTS AND SERVICE NEEDS

PLEASE CONTACT US AT:

1-877-533-3133

www.brandt.ca

SAFETY CONSIDERATIONS



TO PREVENT SERIOUS INJURY OR DEATH, DO NOT PROCEED WITH THE INSTALLATION, OPERATION OR MAINTENANCE OF THIS ATTACHMENT UNTIL YOU HAVE READ AND UNDERSTOOD YOUR MACHINE OWNERS MANUAL AND THIS ATTACHMENT MANUAL.

INCORRECT OPERATION, LUBRICATION, MAINTENANCE OR REPAIR OF THIS ATTACHMENT CAN BE DANGEROUS AND MAY RESULT IN SERIOUS INJURY OR DEATH.

Be aware of high pressure hydraulic fluid and take appropriate precautions.

Secure all hydraulic hoses. Incorrect hoses or fittings can result in injury, death, property damage, or equipment malfunction.

Ensure all ground personnel are free and clear of the machine operating envelope.

When servicing attachments, ensure all suspended parts are secure, ensure all hydraulic and electric circuits are de-energized, and ensure all machine controls are locked out.

Do not modify or weld on any part of this attachment without consulting with Brandt Equipment Solutions Ltd. To do so will void warranty and may result in injury or death if structural components are affected.

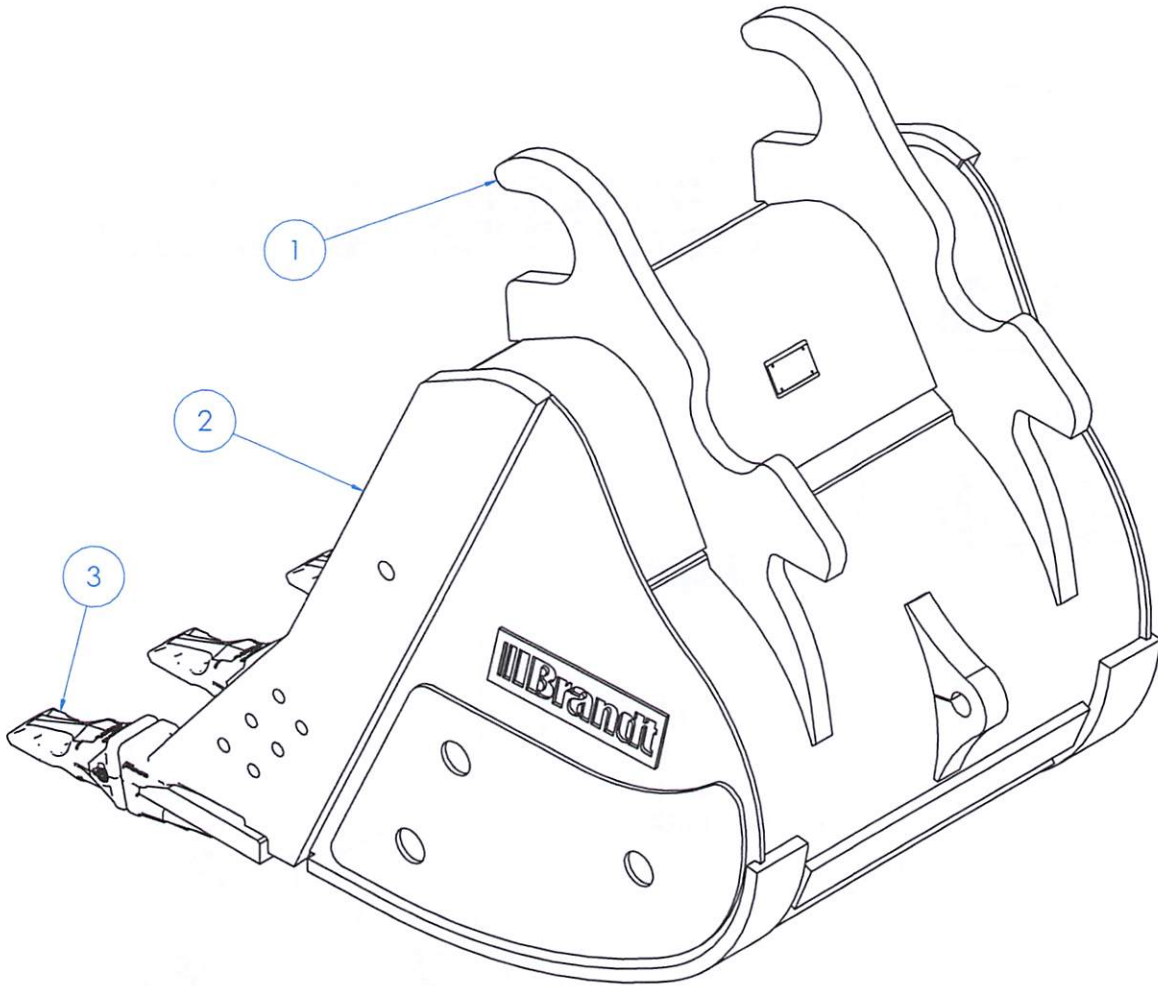
A Load Rating decal may be provided on this attachment. Failure to comply with these figures may result in product damage, personal injury or death.

Some attachment load ratings may be higher than the capability of the machine on which they are mounted. Contact your dealer or reference your machine manual to calculate the safe working capacity of your machine. The attachment weight can be found on the serial number tag or Load Ratings decal.

Brandt cannot anticipate every circumstance that might involve hazards. The warnings in this product manual are NOT a comprehensive safety program.

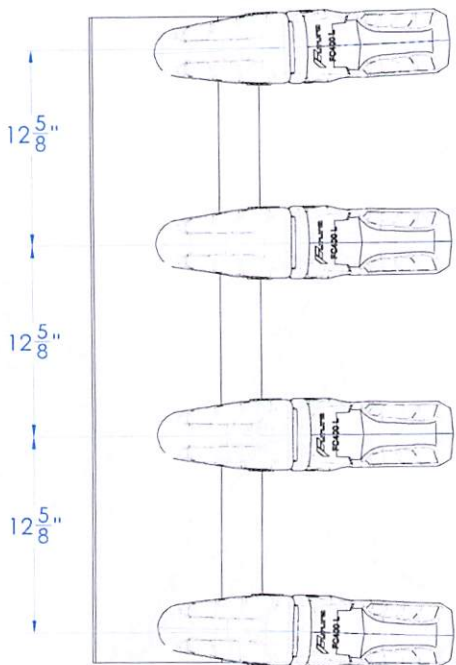
It is the responsibility of the owners and operators of industrial equipment to develop safety programs specific to their application and maintain current levels of compliance to local Safety Codes.

REPLACEMENT PARTS



ITEM	DESCRIPTION	NOTES	QTY	PART NO
1	LUGS,WELD,250SER,BKT,42	250SER,RBT BKT	1	206044-04200
2	BKT,WELD,BDES,42	NSTD EDGE	1	202379-04200
3	GET KIT,EX,40 SER,HAMMERLESS	WELD ON	1	211863-04200-4

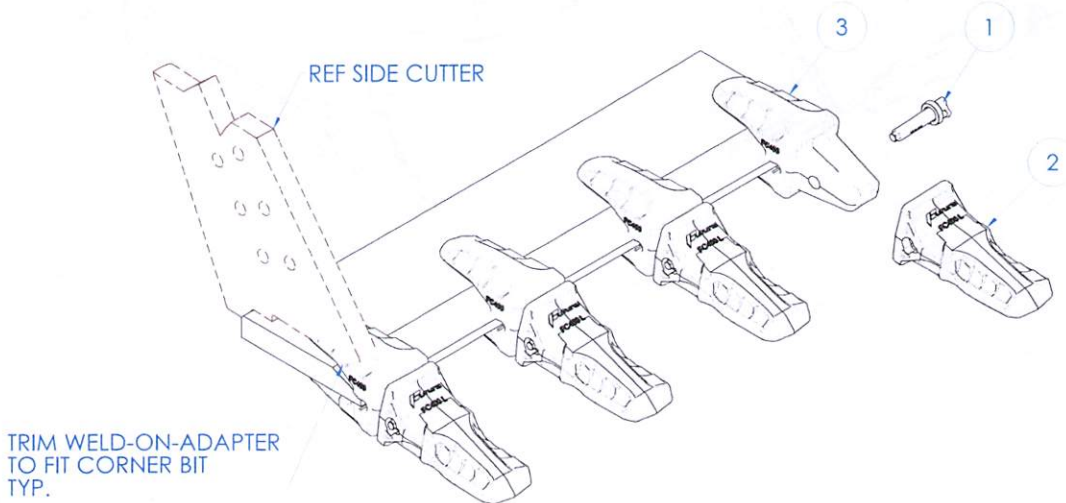
GROUND ENGAGING TOOL SPACING



NOTE:

1. PLEASE REFER TO DRW 202152, TYP. ADAPTER JOINT, FOR WELD FINISH, SEE EWS-0003 FOR WELD PROCEDURE
2. PLEASE ENSURE BUCKET TIPS STICK OUT 1/2" ON BOTH SIDES OF BUCKET
3. BUCKETS WILL ACCEPT BOLT ON SIDE CUTTER JD 2021232 L.H., JD 2021233 R.H.

ANGLED OUT
SEE NOTE 2



TRIM WELD-ON-ADAPTER
TO FIT CORNER BIT
TYP.

ITEM	DESCRIPTION	NOTES	QTY	PART NO
1	PIN, ASSY, HAMMERLESS		4	602994
2	TIP, LONG		4	600614
3	ADAPTER, WELD ON		4	600615

BOLTS

Grade 8 Bolt Size (in)	TORQUE (ft-lb ±10%)	
	Dry	Lubricated
1/4 - 20UN	12.5	10
5/16 - 18UN	26	20.5
3/8 - 16UN	46	36
7/16 - 14UN	74	59
1/2 - 13UN	115	88
9/16 - 12UN	165	130
5/8 - 11UN	225	175
3/4 - 10UN	400	315
7/8 - 9UN	640	510
1 - 8UN	960	760
1-1/4 - 7UN	1920	1500

Grade 10.9 Bolt Size (mm)	TORQUE (N-m ±10%)	
	Dry	Lubricated
10 x 1.50	80	63
12 x 1.75	140	110
14 x 2.00	225	175
16 x 2.00	350	275
18 x 1.50	475	375
20 x 1.50	675	530
24 x 3.00	1150	925

It is good practice to chase and clean all tapped holes to remove debris, providing more accurate torque readings.

HYDRAULIC FITTINGS

Fitting Size (in)	Dash Size	TORQUE							
		37° JIC		ORB L.P.		ORB H.P.		ORF	
		ft-lb	N-m	ft-lb	N-m	ft-lb	N-m	ft-lb	N-m
1/4	04	10-12	14-16	14-16	19-22	14-16	19-22	10-12	14-16
3/8	06	17-20	24-28	24-26	33-35	24-35	33-47	18-20	24-27
1/2	08	34-42	52-58	37-44	50-60	50-60	68-81	32-40	43-54
5/8	10	57-62	77-85	50-60	68-81	72-80	98-108	46-56	62-76
3/4	12	70-87	108-119	75-83	102-113	125-135	169-183	65-80	88-108
1	16	94-113	148-154	111-125	150-183	200-220	271-298	92-105	125-142
1-1/4	20	124-138	173-182	133-152	180-206	210-280	285-380	125-140	169-190
1-1/2	24	156-173	216-227	156-184	212-249	270-360	366-488	150-180	203-244

BUCKET SHACKLES

BUCKET SERIES	CROSBY SHACKLE
120/150	G209-1018570
200	G209-1018614
250	G209-1018614
300	G209-1018632
400	G209-1018632