



Service Information
Unit 601
2008 Volvo A40E Articulated Dump Truck
Serial No: V11356

Summary of Major Repairs	Performed at (hrs)	Date Completed	Cost
Install all new injectors	13967	February 18, 2025	\$7,498.91
Replace rear drive shaft and equalizer springs	13444	October 3, 2024	\$5,381.92
Replace failed turbo, and install all new exhaust manifold, studs and nuts	12072	January 3, 2023	\$12,827.23
Rebearing & reseal middle differential Install new intermediate drive-shaft, u-joint and slip yoke Replace worn suspension spring blocks	11966	December 3, 2022	\$22,211.76
Replace steering damping cylinder	11381	July 25, 2022	\$2,524.50
Purchase and install tailgate	10269	July 14, 2021	\$12,469.49
Diagnose and repair load sense line blockage	9983	May 7, 2021	\$11,249.64
Split machine, new frame joint bearing and accosiated bushings and seals	9967	April 12, 2021	\$19,872.27
Replace transmission speed sensor inside transmission, reseal, reinstall Install new operator seat new rear engine crankshaft seal and PTO assembly	8921	November 30, 2018	\$20,421.02
Replace front propellor shaft and u-joining	8800	August 20, 2018	\$6,786.84
Reseal right dump cylinder Replace damaged hydraulic return tube Repair exhaust leak	8049	April 19, 2017	\$4,568.60
Recurring Maintenance Schedule	Due Every (hrs):	Last Completed (hrs):	Parts Required
Change Engine Oil and Filter	250	13908	Summer - 15W-40 (54L) Winter - 5W-40 Synthetic (54L) Baldwin B76SS or Volvo 17533661 (2) Baldwin B7685 or Volvo 21707132 (1)
Run Espar to Ensure Proper Operation	250	13861	NA
Change Fuel Filters	500	13908	Baldwin BF1363(1) Baldwin BF7943 (1)
Change Outer Engine Air Filter	500	13564	Baldwin RS5459
Change Cab Air Filters	500	13876	Baldwin PA4991 (1) Baldwin PA5310 (1)
Change Inner Engine Air Filter	1000	13133	Baldwin RS5460
Change Transmission Oil and Filters	1000	13444	Heavy Duty Synthetic Blend ATF (34L) Baldwin BT9363MPG (2)
Change Brake Cooling Oil Filters	1000	13348	Volvo 17438618 (1) (inside tank) Baldwin PT9435MPG (1) (behind cab)
Change Brake Cooling Oil Tank Breather	1000	13348	Baldwin PA5311 (1)
Change Fuel Tank Breather	1000	13444	Baldwin PA5311 (1)
Change Hydraulic Oil Filters	2000	12496	Volvo 17438618(2) (inside tank) Baldwin H9043V (1) (behind cab)
Change Air Drier Cartridge	2000	13248	Baldwin BA16000
Change Drive Axle Oil	2000	12504	Front Axle: 75W-90 Synthetic (26L) Middle Axle: 75W-90 Synthetic (28L) Rear Axle: 75W-90 Synthetic (26L)
Change Frame Joint Bearing Oil	2000	12540	75W-90 Synthetic (4L)
Change Dropbox Oil	2000	13197	75W-90 Synthetic (9L)
Change Brake Cooling Oil	2000	13197	Duratran Synthetic (210L)
Change Drive Axle Breathers and Dropbox Breather	2000	13179	Baldwin PA5700 (3)
Change Frame Joint Bearing Breather	2000	13179	Baldwin PA5700(1)
Change Transmission Breather	2000	13179	Baldwin PA5700 (1)
Engine Valve Lash Inspect/Adjust	3000	9968	NA
Sample Coolant	1 Year	13197	Sample Kit
Sample Hydraulic Oil	1 Year	13133	Sample Kit

BRODSKY CONSTRUCTION INC
DAVID BRODSKY
735--6TH AVE N
SASKATOON, SASK S7K 2S8

FAX:
PHONE: 306-280-5380

SAMPLE TYPE: COOLANT - RAD_1

SAMPLE SHIP TIME (days): 6

COMPANY NAME : BRODSKY CONSTRUCTION INC
CUSTOMER EQUIP NUM : 601
COMPARTMENT NAME : RADIATOR
SERIAL NUMBER : V11356
MANUFACTURER : VOLVO
MODEL : A40E_VOLVO
JOB SITE :
EXT WARR NUMBER :

SHOP JOB NUM :
COMP SERIAL NUM :
COMPARTMENT MODEL :
COMP MANUFACTURER :
SAMPLE LABEL NUM :
FLUID BRAND/WEIGHT : CAT
FLUID TYPE : ELC
EXT WARR EXPIRE DATE :
FUEL CONSUMED :



Oilsupport@finning.com

1888-FINNING
www.finning.ca

LAB CONTROL NUMBER	SAMPLE DATE	PROCESS DATE	EQUIPMENT METER	METER ON FLUID	FLUID CHANGED	MAKE UP FLUID	MAKE UP FLUID UNITS
N070-49106-1005	10-Apr-2019	16-Apr-2019	8930 HR	8930 HR	Unknown		
Monitor Compartment	NITRITE INHIBITOR LEVEL IS TOO LOW TO PROVIDE CORROSION PROTECTION. ADD COOLANT ADDITIVE TO BOOST NITRITE, UNLESS NITRITE FREE COOLANT. ALL OTHER READINGS ARE WITHIN THE ACCEPTABLE RANGE. CONTINUE TO USE THIS COOLANT. RESAMPLE TO MONITOR.						

Data	BP	FP	GL	pH	CON
N070-49106-1005	108	-43	54	7.8	4446

Data	NO2	Odor	Color	App	Foam	Oil	PAmt
N070-49106-1005	248	norm	orange	clear	norm	none	none

Al = Aluminum, Cu = Copper, Fe = Iron, K = Potassium, Na = Sodium, Pb = Lead, Sn = Tin, V = Vanadium, Zn = Zinc, BO3 = Borate, CaC = Ca as CaCO3, MgC = Mg as CaCO3, MoO4 = Molybdate, PO4 = Phosphate, SiO3 = Silicate, TH = Total Hardness, CL = Chloride, CO3 = Carbonate, GLO = Glycolate, NO2 = Nitrite, NO3 = Nitrate, PO4 = Phosphate, SAC = Sebacic Acid, SO4 = Sulfate, TT = Tolytriazole, BP = Boil Point(°C), FP = Freeze Point(°C), GL = Glycol, CON = Conductivity, App = Appearance, PAmt = Precipitate Amount, PApp = Precipitate Appearance, PCol = Precipitate Color, PProp = Precipitate Property, CType = Coolant Type

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.

HYDRAULIC SYSTEM

EQUIP NUM: 601

SERIAL NUMBER: V11356

N070-51019-7015

LABEL#:

SHOP JOB NUM : 601M24

SAMPLE SHIP TIME (days) : 7

BRODSKY

CONSTRUCTION INC

VOLVO A40E_VOLVO



No Action Required

Interp By: Peter Lewandowski

Interpreted On: 20-Jan-21

WEAR METAL ANALYSIS INDICATES ACCEPTABLE WEAR RATE. OIL CONDITION ANALYSIS IS ACCEPTABLE.
PARTICLE COUNT READING EXCEEDS RECOMMENDED CLEANLINESS LEVEL. RECOMMEND THE USE OF A
ULTRA HIGH EFFICIENCY FILTER TO REDUCE EXCESS PARTICULATE IN SYSTEM. SEE THE CAT FILTER
AND FLUID APPLICATION GUIDE FOR APPROPRIATE FILTER. RESAMPLE AT THE NEXT SERVICE INTERVAL

SAMPLE INFORMATION

Sampled Date	12-Jan-21
Sample Id	N070-51019-7015
Lab Date	19-Jan-21
Meter [Hr]	9739
Comp Meter [Hr]	9739
Meter On Fluid	9739
Fluid Brand	PETRO-CAN
Fluid Weight	32-ISO
Fluid Type	HYDREX MV32
Fluid Change	N
Filter Change	N
Kidney Loop	U

PREVIOUS SAMPLE

WEAR METAL ANALYSIS INDICATES ACCEPTABLE WEAR RATE. OIL CONDITION ANALYSIS IS
ACCEPTABLE. PARTICLE COUNT READING EXCEEDS RECOMMENDED CLEANLINESS LEVEL.
RECOMMEND THE USE OF A ULTRA HIGH EFFICIENCY FILTER TO REDUCE EXCESS PARTICULATE IN
SYSTEM. SEE THE CAT FILTER AND FLUID APPLICATION GUIDE FOR APPROPRIATE FILTER.
RESAMPLE AT THE NEXT SERVICE INTERVAL.

For additional sample history, go to: my.cat.com

CONDITION / CONTAMINATION

12-Jan-21

VISCOSITY (Centistokes)

V100 Viscosity at 100 C 6.1

WATER

W Water N

WEAR LEVELS / ADDITIVES

12-Jan-21

ELEMENTAL ANALYSIS (ppm)

Cu	Copper	3
Fe	Iron	7
Cr	Chromium	0
Al	Aluminum	1
Pb	Lead	0
Sn	Tin	0
Si	Silicon	9
Na	Sodium	1
K	Potassium	1
Mo	Molybdenum	0
Ni	Nickel	0
Ag	Silver	0
Ti	Titanium	0
V	Vanadium	0
Ca	Calcium	615
P	Phosphorus	430
Zn	Zinc	558
Mg	Magnesium	3
Ba	Barium	0
B	Boron	1

VISCOSITY (Centistokes)

V40 Viscosity at 40 C 32.0

VISCOSITY INDEX

VI Viscosity Index 141

INFRARED (UFM)

ST	Soot	0
OXI	Oxidation	14
SUL	Sulfur Products	22
NIT	Nitration	3

ANTIFREEZE

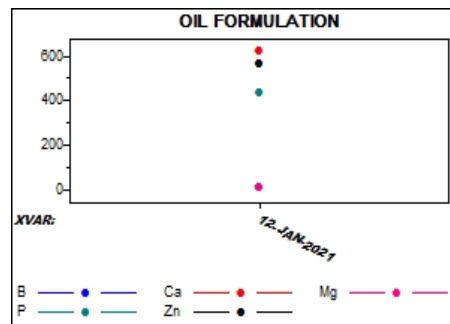
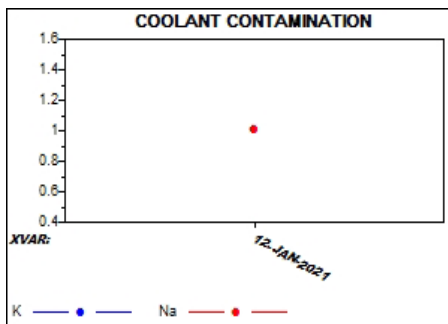
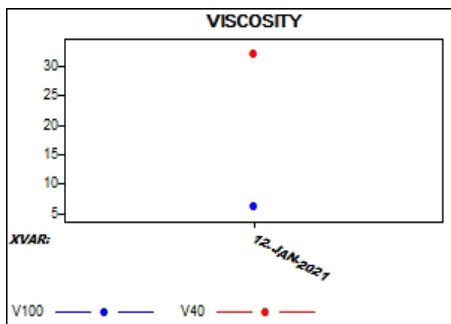
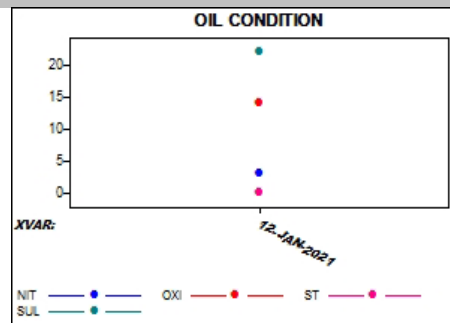
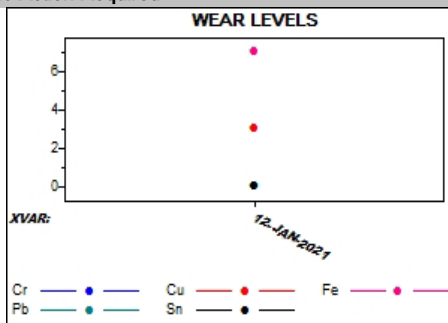
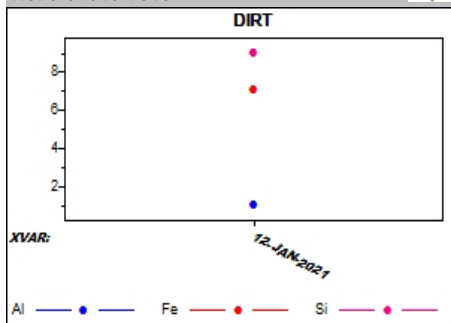
A Antifreeze N

CLEANLINESS

12-Jan-21

PARTICLE COUNT

ISO	ISO Code Rating	21/19/15
4μ	4μ	12377
6μ	6μ	2942
10μ	10μ	700
14μ	14μ	240
18μ	18μ	88
21μ	21μ	39
38μ	38μ	2
50μ	50μ	1



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.

RADIATOR

EQUIP NUM: 601

SERIAL NUMBER: V11356

N070-51019-1007

LABEL#:

SHOP JOB NUM : 601M25

SAMPLE SHIP TIME (days) : 7

BRODSKY

CONSTRUCTION INC

VOLVO A40E_VOLVO



No Action Required

Interp By: Peter Lewandowski

Interpreted On: 20-Jan-21

ALL LEVEL 1 TESTS APPEAR NORMAL. CONTINUE TO USE THIS COOLANT. SAMPLE AGAIN AT THE REGULAR INTERVAL TO MONITOR THE COOLING SYSTEM.

SAMPLE INFORMATION

Sampled Date	12-Jan-21
Sample Id	N070-51019-1007
Lab Date	19-Jan-21
Meter [Hr]	9739
Comp Meter [Hr]	9739
Meter On Fluid	9739
Fluid Brand	PETRO-CAN
Fluid Weight	
Fluid Type	
Fluid Change	N
Filter Change	

PREVIOUS SAMPLE

NITRITE INHIBITOR LEVEL IS TOO LOW TO PROVIDE CORROSION PROTECTION. ADD COOLANT ADDITIVE TO BOOST NITRITE, UNLESS NITRITE FREE COOLANT. ALL OTHER READINGS ARE WITHIN THE ACCEPTABLE RANGE. CONTINUE TO USE THIS COOLANT. RESAMPLE TO MONITOR.

For additional sample history, go to: my.cat.com

ADDITIONAL CHARACTERISTICS

12-Jan-21

REFRACTIVE INDEX

GL	Glycol %	55
FP	Freeze Pt (deg C)	-45
BP	Boil Pt (deg C)	108

pH

pH	pH	8.0
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CORROSION LEVELS/ CHEMISTRY

12-Jan-21

NITRITE (ppm)

NO2	Nitrite	950
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CONDUCTIVITY (µS/cm)

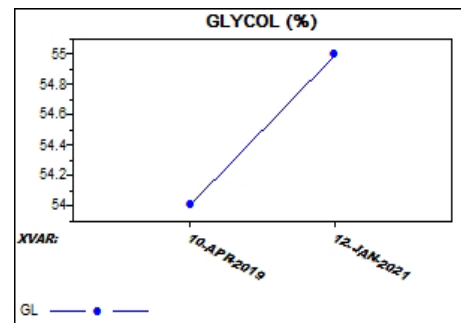
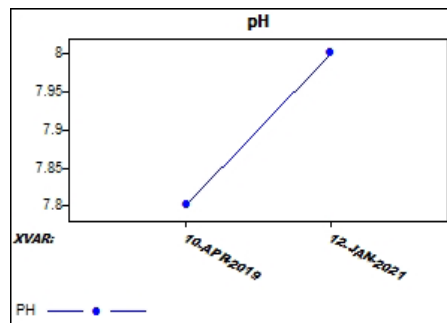
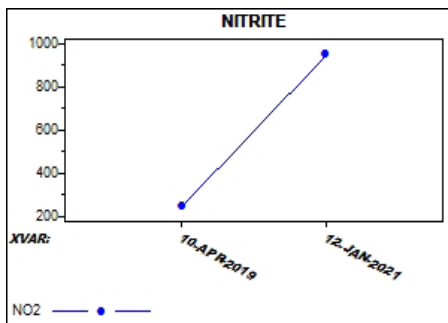
CON	Conductivity	4628
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PHYSICAL CHARACTERISTICS

12-Jan-21

PHYSICAL

Color	Color	red
App	Appearance	clear
Odor	Odor	norm
Oil	Oil	none
Foam	Foam	norm
PAmt	Precipitate Amt	trace
PApp	Precipitate Appear	fine
PCol	Precipitate Color	brn/blk sol
PProp	Precipitate Propert	non-mag



Report Comment

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HYDRAULIC SYSTEM

EQUIP NUM: 601

SERIAL NUMBER: V11356

N070-51139-5001

LABEL#: 200555645

SHOP JOB NUM :

SAMPLE SHIP TIME (days) : 2

BRODSKY

CONSTRUCTION INC

VOLVO A40E_VOLVO



No Action Required

Interp By: Peter Leggo

Interpreted On: 19-May-21

PARTICLE COUNT IS ELEVATED, RE-SAMPLE TO VERIFY IF SAMPLE WAS TAKEN CORRECTLY. DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL. *** SAMPLE TRENDING WITH PREVIOUS RESULTS.

SAMPLE INFORMATION

Sampled Date	17-May-21	12-Jan-21
Sample Id	N070-51139-5001	N070-51019-7015
Lab Date	19-May-21	19-Jan-21
Meter [Hr]	9987	9739
Comp Meter [Hr]	9987	9739
Meter On Fluid	9987	9739
Fluid Brand	PETRO-CAN	PETRO-CAN
Fluid Weight	32-ISO	32-ISO
Fluid Type	HYDREX MV32	HYDREX MV32
Fluid Change	N	N
Filter Change	Y	N
Kidney Loop	U	U

PREVIOUS SAMPLE

WEAR METAL ANALYSIS INDICATES ACCEPTABLE WEAR RATE. OIL CONDITION ANALYSIS IS ACCEPTABLE. PARTICLE COUNT READING EXCEEDS RECOMMENDED CLEANLINESS LEVEL. RECOMMEND THE USE OF A ULTRA HIGH EFFICIENCY FILTER TO REDUCE EXCESS PARTICULATE IN SYSTEM. SEE THE CAT FILTER AND FLUID APPLICATION GUIDE FOR APPROPRIATE FILTER. RESAMPLE AT THE NEXT SERVICE INTERVAL.

CONDITION / CONTAMINATION

	17-May-21	12-Jan-21
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VISCOSITY (Centistokes)

V100	Viscosity at 100 C	6.0	6.1
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VISCOSITY (Centistokes)

V40	Viscosity at 40 C	31.5	32.0
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WEAR LEVELS / ADDITIVES

	17-May-21	12-Jan-21
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ELEMENTAL ANALYSIS (ppm)

Cu	Copper	2	3
Fe	Iron	5	7
Cr	Chromium	0	0
Al	Aluminum	1	1
Pb	Lead	1	0
Sn	Tin	0	0
Si	Silicon	6	9
Na	Sodium	1	1
K	Potassium	0	1
Mo	Molybdenum	0	0
Ni	Nickel	0	0
Ag	Silver	0	0
Ti	Titanium	0	0
V	Vanadium	0	0
Ca	Calcium	404	615
P	Phosphorus	401	430
Zn	Zinc	504	558
Mg	Magnesium	2	3
Ba	Barium	0	0
B	Boron	0	1

VISCOSITY INDEX

VI	Viscosity Index	139	141
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INFRARED (UFM)

ST	Soot	0	0
OXI	Oxidation	12	14
SUL	Sulfur Products	21	22
NIT	Nitration	2	3

WATER

W	Water	N	N
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ANTIFREEZE

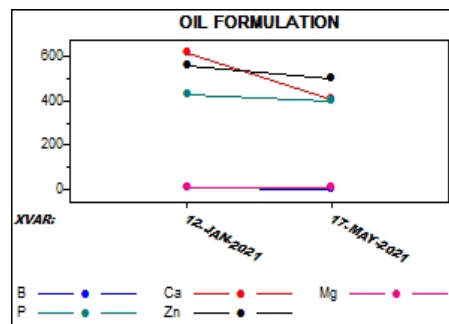
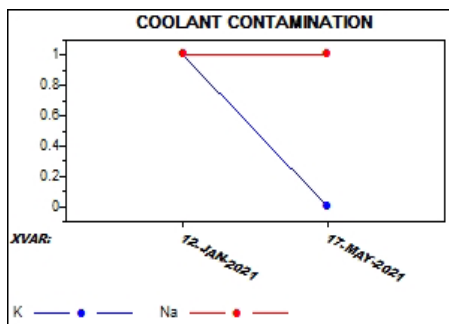
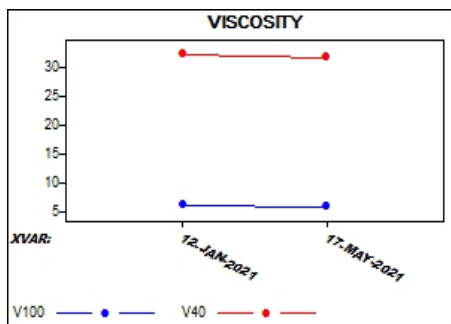
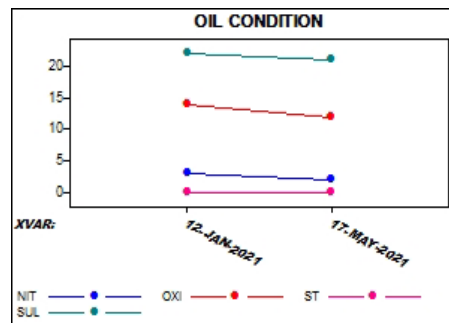
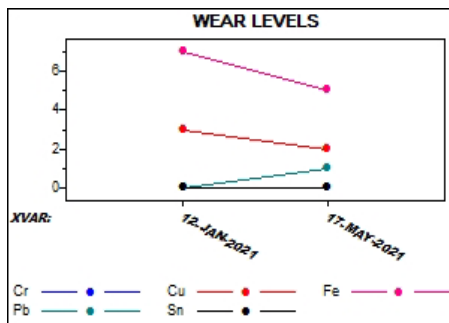
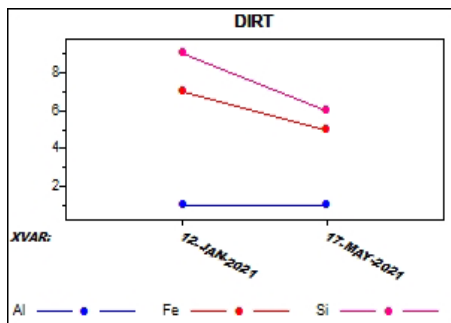
A	Antifreeze	N	N
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CLEANLINESS

	17-May-21	12-Jan-21
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PARTICLE COUNT

ISO	ISO Code Rating	20/18/16	21/19/15
4μ	4μ	9344	12377
6μ	6μ	2293	2942
10μ	10μ	826	700
14μ	14μ	412	240
18μ	18μ	223	88
21μ	21μ	149	39
38μ	38μ	16	2
50μ	50μ	4	1



Report Comment

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RADIATOR

EQUIP NUM: 601

SERIAL NUMBER: V11356

N070-53181-1001

LABEL#: 201033221

SHOP JOB NUM : 6011493

SAMPLE SHIP TIME (days) : 4

BRODSKY CONSTRUCTION
INC

RECEIVED DATE: 30-Jun-23

VOLVO A40E_VOLVO

No Action Required



ALL LEVEL 1 TESTS APPEAR NORMAL FOR THIS COOLANT. RESAMPLE AT THE NEXT INTERVAL.

Interp By: Gregory Scribner

Interpreted On: 05-Jul-23

SAMPLE INFORMATION

	26-Jun-23	12-Jan-21	10-Apr-19
Sampled Date	26-Jun-23	12-Jan-21	10-Apr-19
Sample Id	N070-53181-1001	N070-51019-1007	N070-49106-1005
Lab Date	30-Jun-23	19-Jan-21	16-Apr-19
Meter [Hr]	12388	9739	8930
Comp Meter [Hr]	12388	9739	8930
Meter On Fluid	12388	9739	8930
Fluid Brand	PETRO-CAN	PETRO-CAN	CAT
Fluid Weight			
Fluid Type			
Fluid Change	U	N	U
Filter Change	U		

PREVIOUS SAMPLE

ALL SAMPLE SYSTEM.	LEVEL AGAIN	1 TESTS AT	APPEAR THE	NORMAL. REGULAR	CONTINUE INTERVAL	TO MONITOR	USE THIS	COOLANT. COOLING
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ADDITIONAL CHARACTERISTICS

	26-Jun-23	12-Jan-21	10-Apr-19
ADDITIONAL ANALYTES (ppm)			
PO4	Phosphate	15	
TH	Total Hardness	31	

REFRACTIVE INDEX

GL	Glycol (%)	53	55	54
FP	Freeze Point (°C)	-42	-45	-43
BP	Boil Point (°C)	108	108	108

pH

pH	pH	7.8	8.0	7.8
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CONDUCTIVITY (µS/cm)

CON	Conductivity	4005	4628	4446
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NITRITE (ppm)

NO2	Nitrite	545	950	248
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PHYSICAL CHARACTERISTICS

		26-Jun-23	12-Jan-21	10-Apr-19
PHYSICAL				
Color	Color	red	red	orange
App	Appearance	clear	clear	clear
Odor	Odor	norm	norm	norm
Oil	Oil	none	none	none
Foam	Foam	norm	norm	norm
PAmt	Precip Amount	none	trace	none
PApp	Precip Appearance	fine		
PCol	Precip Color	brn/blk sol		
PProp	Precip Property	non-mag		

CORROSION LEVELS/ CHEMISTRY

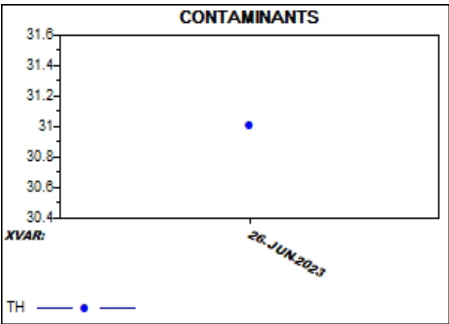
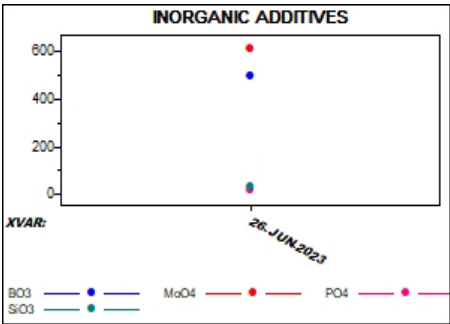
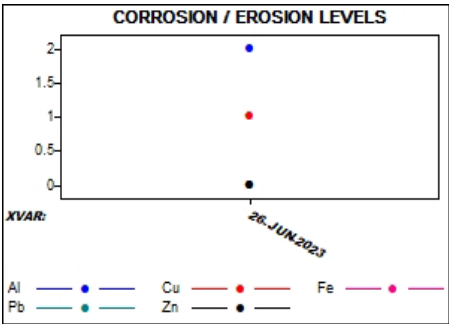
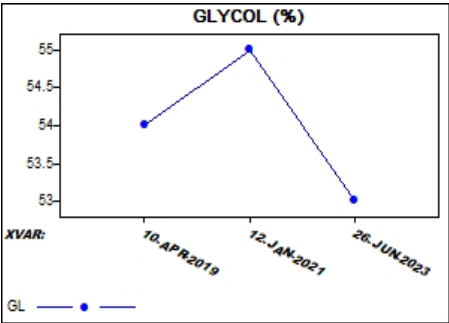
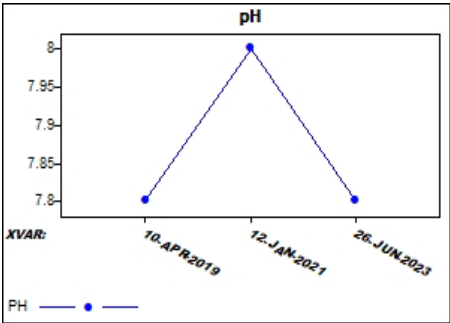
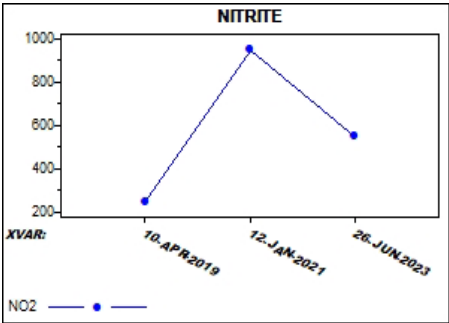
	26-Jun-23	12-Jan-21	10-Apr-19
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ELEMENTAL ANALYSIS (ppm)

Cu	Copper	1
Fe	Iron	0
Pb	Lead	0
Sn	Tin	0
Al	Aluminum	2
Zn	Zinc	0
Na	Sodium	3127
K	Potassium	1029
Mo	Molybdenum	364
B	Boron	90
Ca	Calcium	8
Mg	Magnesium	3
P	Phosphorus	5
Si	Silicon	10

ADDITIONAL ANALYTES (ppm)

MoO4	Molybdate	606
BO3	Borate	489
SiO3	Silicate	28
CaC	Ca as CaCO3	20
MgC	Mg as CaCO3	11



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HYDRAULIC SYSTEM

N070-53181-7016

LABEL#: 2010033000

SAMPLE SHIP TIME (days) : 2

**BRODSKY CONSTRUCTION
INC**

RECEIVED DATE: 30-Jun-23

EQUIP NUM: 601

VOLVO A40E_VOLVO

No Action Required

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

SERIAL NUMBER: V11356

Interp By: Gregory Scribner

Interpreted On: 06-Jul-23

SAMPLE INFORMATION

	28-Jun-23	17-May-21	12-Jan-21
Sampled Date	28-Jun-23	17-May-21	12-Jan-21
Sample Id	N070-53181-7016	N070-51139-5001	N070-51019-7015
Lab Date	30-Jun-23	19-May-21	19-Jan-21
Meter [Hr]	12833	9987	9739
Comp Meter [Hr]	12833	9987	9739
Meter On Fluid	12833	9987	9739
Fluid Brand	OTHER	PETRO-CAN	PETRO-CAN
Fluid Weight	32-ISO	32-ISO	32-ISO
Fluid Type	MV	HYDREX MV32	HYDREX MV32
Fluid Change	U	N	N
Filter Change	U	Y	N
Kidney Loop	U	U	U

PREVIOUS SAMPLE

PARTICLE COUNT IS ELEVATED, RE-SAMPLE TO VERIFY IF SAMPLE WAS TAKEN CORRECTLY. DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL. *** SAMPLE TRENDING WITH PREVIOUS RESULTS.			
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CONDITION / CONTAMINATION

		28-Jun-23	17-May-21	12-Jan-21
VISCOSITY (Centistokes)				
V100	Viscosity at 100 C	5.700	6.0	6.1
VISCOSITY (Centistokes)				
V40	Viscosity at 40 C	28.30	31.5	32.0

WEAR LEVELS / ADDITIVES

		28-Jun-23	17-May-21	12-Jan-21
ELEMENTAL ANALYSIS (ppm)				
Cu	Copper	1	2	3
Fe	Iron	5	5	7
Cr	Chromium	0	0	0
Al	Aluminum	1	1	1
Pb	Lead	1	1	0
Sn	Tin	0	0	0
Si	Silicon	5	6	9
Na	Sodium	0	1	1
K	Potassium	0	0	1
Mo	Molybdenum	0	0	0
Ni	Nickel	0	0	0
Ag	Silver	0	0	0
Ti	Titanium	0	0	0
V	Vanadium	0	0	0
Ca	Calcium	285	404	615
P	Phosphorus	351	401	430
Zn	Zinc	481	504	558
Mg	Magnesium	2	2	3
Ba	Barium	0	0	0
B	Boron	1	0	1

VISCOSITY INDEX				
VI	Viscosity Index	147	139	141

INFRARED (UFM)

ST	Soot	0	0	0
OXI	Oxidation	11	12	14
SUL	Sulfur Products	20	21	22
NIT	Nitration	2	2	3

WATER

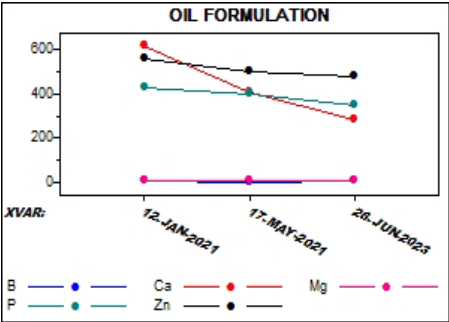
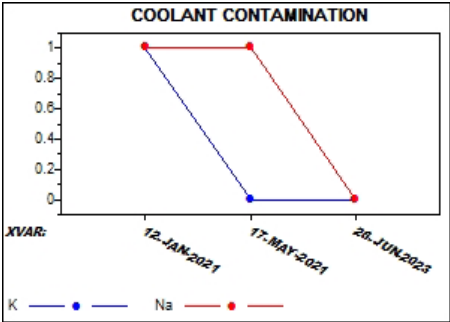
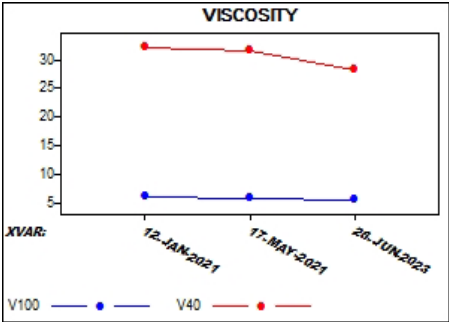
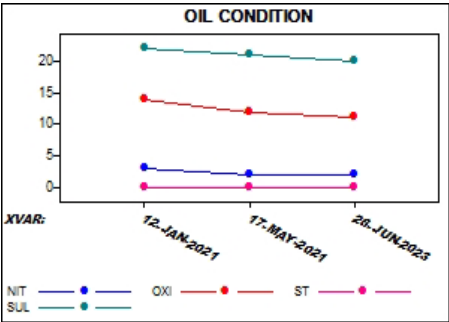
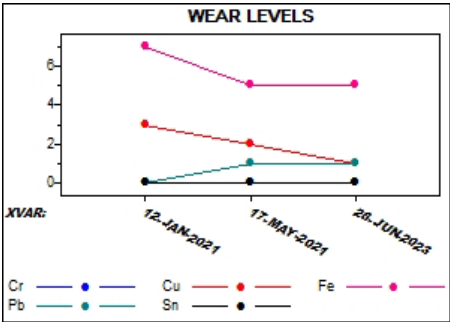
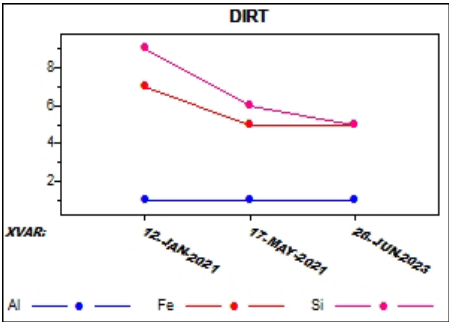
W	Water	N	N	N
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ANTIFREEZE

A	Antifreeze	N	N	N
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CLEANLINESS

		28-Jun-23	17-May-21	12-Jan-21
PARTICLE COUNT				
ISO	ISO Code Rating	23/22/18	20/18/16	21/19/15
4µ	4µ	44216	9344	12377
6µ	6µ	22491	2293	2942
10µ	10µ	5793	826	700
14µ	14µ	1555	412	240
18µ	18µ	446	223	88
21µ	21µ	173	149	39
38µ	38µ	2	16	2
50µ	50µ	1	4	1



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.

HYDRAULIC SYSTEM

N070-54178-7112

LABEL#: 200937297

SHOP JOB NUM : 601M110

SAMPLE SHIP TIME (days) : 12

**BRODSKY CONSTRUCTION
INC**

RECEIVED DATE: 26-Jun-24

EQUIP NUM: 601
VOLVO A40E_VOLVO

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.

SERIAL NUMBER: V11356

Interp By: Greg Eyre
Interpreted On: 02-Jul-24

SAMPLE INFORMATION

	14-Jun-24	28-Jun-23	17-May-21	12-Jan-21
Sampled Date	14-Jun-24	28-Jun-23	17-May-21	12-Jan-21
Sample Id	N070-54178-7112	N070-53181-7016	N070-51139-5001	N070-51019-7015
Lab Date	26-Jun-24	30-Jun-23	19-May-21	19-Jan-21
Meter [Hr]	13133	12833	9987	9739
Comp Meter [Hr]	13133	12833	9987	9739
Meter On Fluid	13133	12833	9987	9739
Fluid Brand	OTHER	OTHER	PETRO-CAN	PETRO-CAN
Fluid Weight	32-ISO	32-ISO	32-ISO	32-ISO
Fluid Type	MV	MV	HYDREX MV32	HYDREX MV32
Fluid Change	U	U	N	N
Filter Change	U	U	Y	N
Kidney Loop	U	U	U	U

PREVIOUS SAMPLE

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

CONDITION / CONTAMINATION

	14-Jun-24	28-Jun-23	17-May-21	12-Jan-21
VISCOSITY (Centistokes)				
V100 Viscosity at 100 C	5.000	5.700	6.0	6.1

VISCOSITY (Centistokes)				
V40 Viscosity at 40 C	22.70	28.30	31.5	32.0

VISCOSITY INDEX

VI Viscosity Index	154	147	139	141
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INFRARED (UFM)

ST Soot	0	0	0	0
OXI Oxidation	11	11	12	14
SUL Sulfur Products	19	20	21	22
NIT Nitration	2	2	2	3

WATER

W Water	N	N	N	N
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ANTIFREEZE

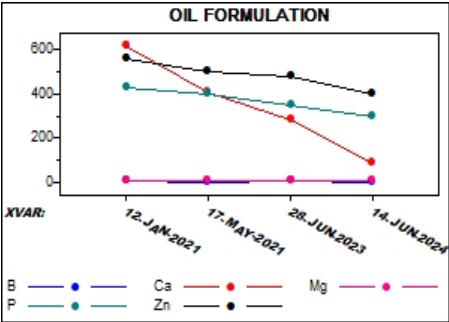
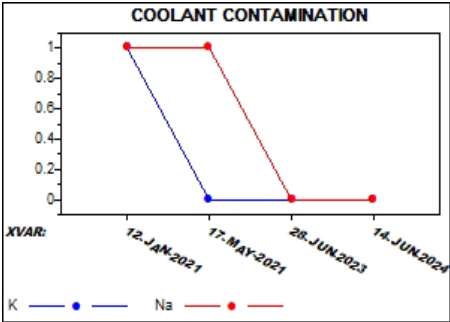
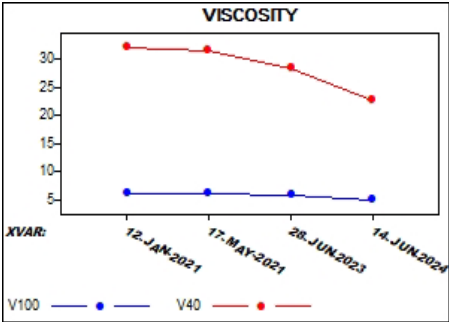
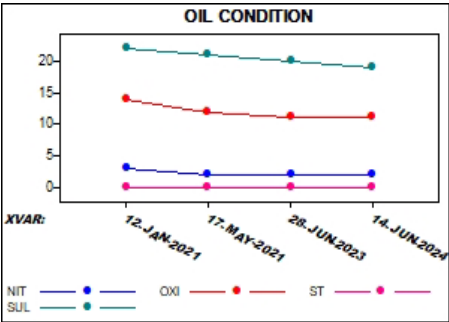
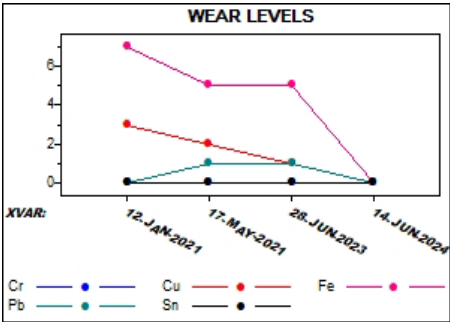
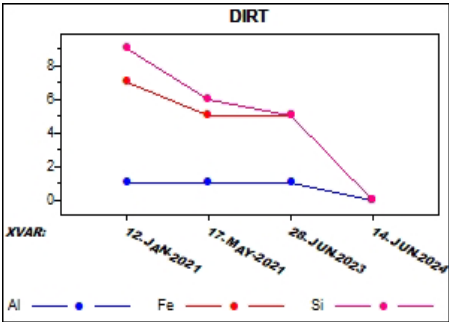
A Antifreeze	N	N	N	N
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CLEANLINESS

	14-Jun-24	28-Jun-23	17-May-21	12-Jan-21
PARTICLE COUNT				
ISO ISO Code Rating	20/17/13	23/22/18	20/18/16	21/19/15
4µ 4µ	5816	44216	9344	12377
6µ 6µ	887	22491	2293	2942
10µ 10µ	124	5793	826	700
14µ 14µ	45	1555	412	240
18µ 18µ	21	446	223	88
21µ 21µ	14	173	149	39
38µ 38µ	6	2	16	2
50µ 50µ	5	1	4	1

WEAR LEVELS / ADDITIVES

	14-Jun-24	28-Jun-23	17-May-21	12-Jan-21
ELEMENTAL ANALYSIS (ppm)				
Cu Copper	0	1	2	3
Fe Iron	0	5	5	7
Cr Chromium	0	0	0	0
Al Aluminum	0	1	1	1
Pb Lead	0	1	1	0
Sn Tin	0	0	0	0
Si Silicon	0	5	6	9
Na Sodium	0	0	1	1
K Potassium	0	0	0	1
Mo Molybdenum	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
Ca Calcium	84	285	404	615
P Phosphorus	300	351	401	430
Zn Zinc	397	481	504	558
Mg Magnesium	1	2	2	3
Ba Barium	0	0	0	0
B Boron	0	1	0	1



Report Comment

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RADIATOR

EQUIP NUM: 601

SERIAL NUMBER: V11356

N070-54201-1005

LABEL#: 201688128

SHOP JOB NUM : 601M121

SAMPLE SHIP TIME (days) : 22

BRODSKY CONSTRUCTION
INC

RECEIVED DATE: 19-Jul-24

VOLVO A40E_VOLVO

 No Action Required

ALL LEVEL 1 TESTS APPEAR NORMAL. CONTINUE TO USE THIS COOLANT. SAMPLE AGAIN AT THE REGULAR INTERVAL TO MONITOR THE COOLING SYSTEM.

Interp By: Greg Eyre
Interpreted On: 26-Jul-24

SAMPLE INFORMATION

	27-Jun-24	26-Jun-23	12-Jan-21	10-Apr-19
Sampled Date	27-Jun-24	26-Jun-23	12-Jan-21	10-Apr-19
Sample Id	N070-54201-1005	N070-53181-1001	N070-51019-1007	N070-49106-1005
Lab Date	19-Jul-24	30-Jun-23	19-Jan-21	16-Apr-19
Meter [Hr]	13197	12388	9739	8930
Comp Meter [Hr]	13197	12388	9739	8930
Meter On Fluid	13197	12388	9739	8930
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	CAT
Fluid Weight				
Fluid Type				
Fluid Change	U	U	N	U
Filter Change	U	U		

CORROSION LEVELS/ CHEMISTRY

	27-Jun-24	26-Jun-23	12-Jan-21	10-Apr-19
ELEMENTAL ANALYSIS (ppm)				
Cu Copper		1		
Fe Iron		0		
Pb Lead		0		
Sn Tin		0		
Al Aluminum		2		
Zn Zinc		0		
Na Sodium		3127		
K Potassium		1029		
Mo Molybdenum		364		
B Boron		90		
Ca Calcium		8		
Mg Magnesium		3		
P Phosphorus		5		
Si Silicon		10		

ADDITIONAL ANALYTES (ppm)

MoO4 Molybdate	606
BO3 Borate	489
SiO3 Silicate	28
CaC Ca as CaCO3	20
MgC Mg as CaCO3	11

PREVIOUS SAMPLE

ALL LEVEL 1 TESTS APPEAR NORMAL FOR THIS COOLANT. RESAMPLE AT THE NEXT INTERVAL.

ADDITIONAL CHARACTERISTICS

	27-Jun-24	26-Jun-23	12-Jan-21	10-Apr-19
ADDITIONAL ANALYTES (ppm)				
PO4 Phosphate		15		
TH Total Hardness		31		

REFRACTIVE INDEX

GL Glycol (%)	51	53	55	54
FP Freeze Point (°C)	-38	-42	-45	-43
BP Boil Point (°C)	107	108	108	108

pH

pH	pH	7.9	7.8	8.0	7.8
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CONDUCTIVITY (µS/cm)

CON Conductivity	3875	4005	4628	4446
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NITRITE (ppm)

NO2 Nitrite	572	545	950	248
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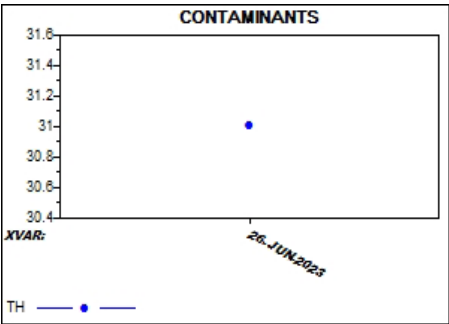
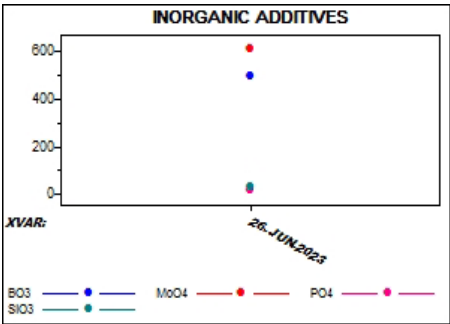
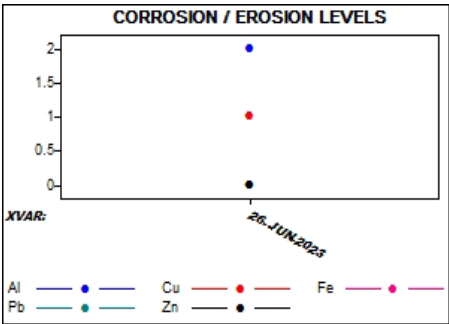
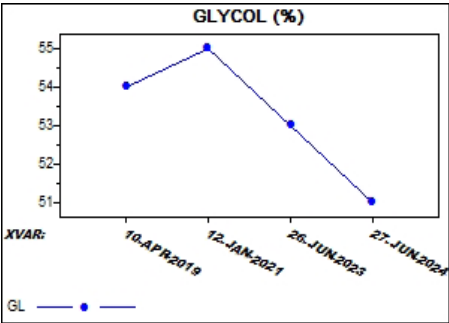
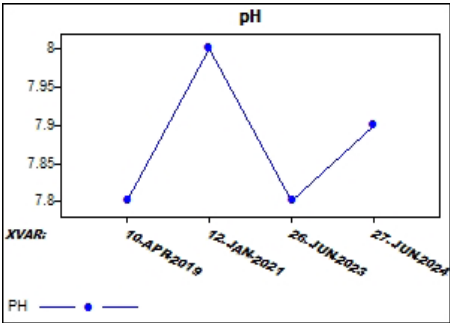
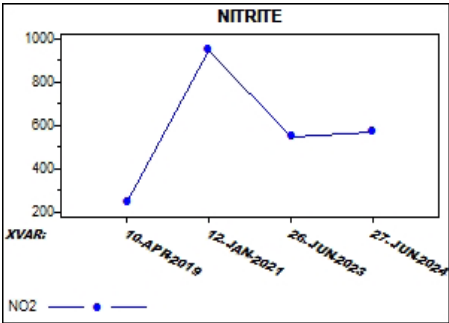
PHYSICAL CHARACTERISTICS

	27-Jun-24	26-Jun-23	12-Jan-21	10-Apr-19
PHYSICAL				
Color Color	red	red	red	orange
App Appearance	clear	clear	clear	clear
Odor Odor	norm	norm	norm	norm
Oil Oil	none	none	none	none
Foam Foam	norm	norm	norm	norm
PAMt Precip Amount	none	none	trace	none
PApp Precip Appearance			fine	
PCol Precip Color			brn/blk sol	
PProp Precip Property			non-mag	

RADIATOR
SERIAL NUMBER: V11356
EQUIP NUM: 601
VOLVO A40E_VOLVO

N070-54201-1005

No Action Required



Report Comment

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