

EM Work Order History By Equipment

Equipment: HE120 - HE120

All Work Orders

All Categories

----- Standard Maintenance -----

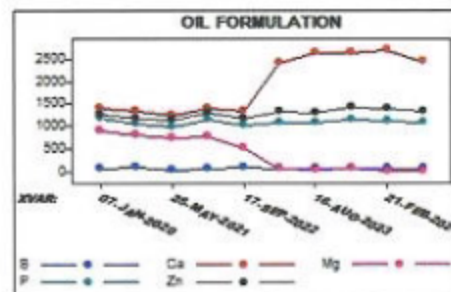
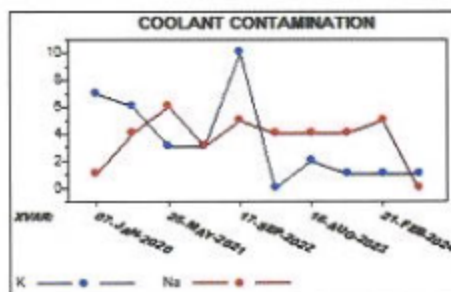
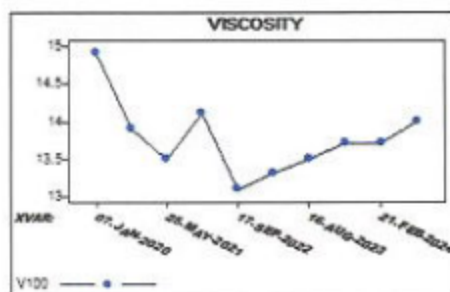
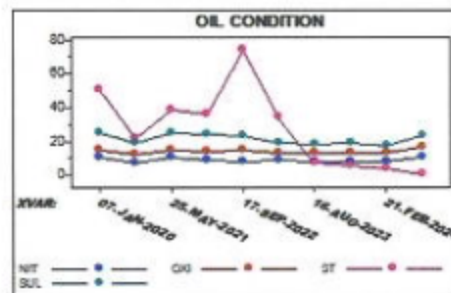
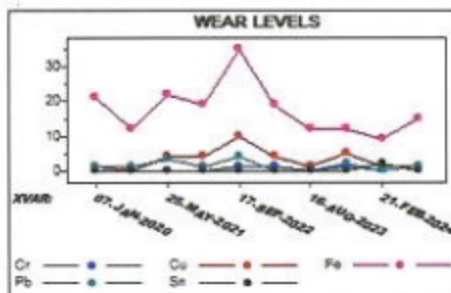
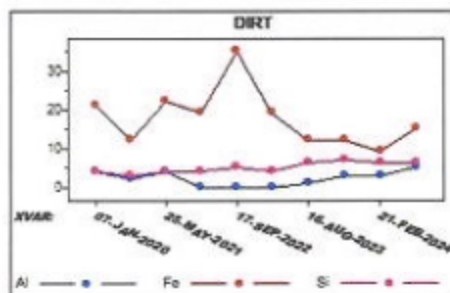
Group	Item	Cost Code	Status	Date Complete	Hour
Equipment: HE120 Excavator, JD, 180G, 15					
18140	1425 REPAIR DOOR RESTRAINT	1425 Tinware	Complete	08/16/18	
19194	736 Replace rod, piston & reseal bucket cylinder	736 Bucket Cylinder	Complete	10/29/19	6,328
20226	736 REPLACE BROKEN BUCKET CURL CYLINDER HR.4	736 Bucket Cylinder	Complete	08/28/20	4,865
20327	592 REPLACE RH MASTER LINK	592 Repair right hand track links	Complete	11/24/20	5,056
24438	79 CLEARED CODES/ NEEDS DPF CLEANED	079 DPF Filter	Complete	12/05/25	8,329

ENGINE
SERIAL NUMBER: FF180GXACE020100
EQUIP NUM: HE120
UNKNOWN UNKNOWN

H160-54235-0111



No Action Required



Report Comment

FINAL DRIVE FRONT

LEFT

H160-54235-0114

LABEL#: 1119328

SAMPLE SHIP TIME (days) : 7

RECEIVED DATE: 22-Aug-24

EQUIP NUM: HE120

UNKNOWN UNKNOWN



Monitor Compartment

SILICON / ALUMINUM ARE ELEVATED. INSPECT FOR DIRT ENTRY / REPAIR AS NECESSARY. ELEVATED IRON MAY BE SOURCED TO WEAR OF GEARS, SPLINES, SHAFTS, HOUSING, BEARINGS... MONITOR COMPARTMENT.

SERIAL NUMBER: FF180GXACE020100

SAMPLE INFORMATION

	15-Aug-24	25-Oct-23	12-Apr-23	17-Sep-22
Sample Id	H160-54235-0114	H160-53317-0017	H160-53114-0113	H160-52269-0226
Sampled By	RS			
Lab Date	22-Aug-24	13-Nov-23	24-Apr-23	26-Sep-22
Meter [Hr]	8162	7600	7078	6540
Comp Meter [Hr]	8162	7600	7078	6540
Meter On Fluid	8162	7600	7074	6540
Fluid Brand				
Fluid Weight	50	50	50	
Fluid Type				
Fluid Change	N	N	N	U
Filter Change	N	U	N	U
Kidney Loop	U	U	U	U
Total Fluid Added	0	0	0	0

WEAR LEVELS / ADDITIVES

	15-Aug-24	25-Oct-23	12-Apr-23	17-Sep-22
ELEMENTAL ANALYSIS (PPM) ASTM D6185 (OIL) / ASTM D6130 (COOLANT)				
Cu Copper	1	1	0	0
Fe Iron	295	275	268	187
Cr Chromium	4	4	4	4
Al Aluminum	26	13	12	5
Pb Lead	0	1	0	0
Sn Tin	0	0	0	5
Si Silicon	72	44	42	27
Na Sodium	0	3	1	2
K Potassium	7	5	4	3
Mo Molybdenum	6	7	8	9
Ni Nickel	2	1	1	1
Ag Silver	0	0	0	0
Ti Titanium	2	1	1	1
V Vanadium	0	0	0	0
Mn Manganese	5	4	4	3
Ca Calcium	87	142	125	124
P Phosphorus	377	485	512	476
Zn Zinc	43	70	64	61
Mg Magnesium	7	10	6	7
Ba Barium	1	1	1	1
B Boron	34	49	54	45

PREVIOUS SAMPLE

MAGNETIC DEBRIS FOUND IN SAMPLE. INSPECT MAGNETIC PLUGS. SOME METALLIC FUZZ IS NORMAL. METALLIC CHIPS OR FLAKES INDICATE ABNORMAL WEAR. SILICON / ALUMINUM ARE ELEVATED. INSPECT FOR DIRT ENTRY / REPAIR AS NECESSARY. ELEVATED IRON MAY BE SOURCED TO WEAR OF GEARS, SPLINES, SHAFTS, HOUSING, BEARINGS... MONITOR COMPARTMENT.

For additional sample history, go to:

[S.O.S WEB](#)

CONDITION / CONTAMINATION

	15-Aug-24	25-Oct-23	12-Apr-23	17-Sep-22
VISCOSITY (CENTISTOKES) ASTM D445				
V100 Viscosity at 100 C	20.60	20.10	20.40	20.20

INFRARED (UFM) ASTM E2412

ST Soot	0	3	0	2
OXI Oxidation	4	3	4	4
SUL Sulfur Products	18	15	17	13
NIT Nitration	4	3	4	3

WATER

W Water	N	N	N	N
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CLEANLINESS

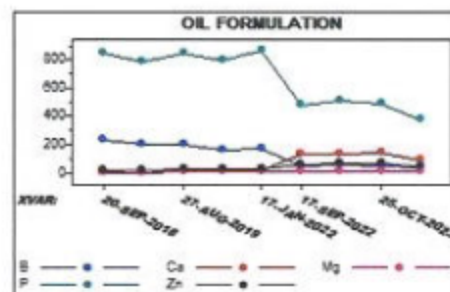
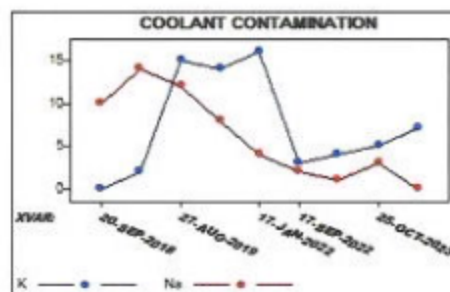
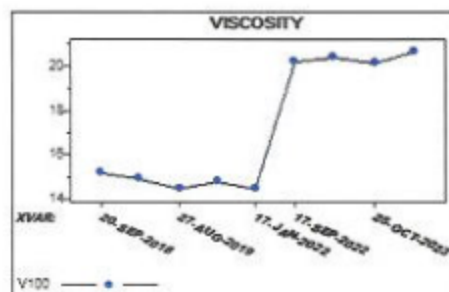
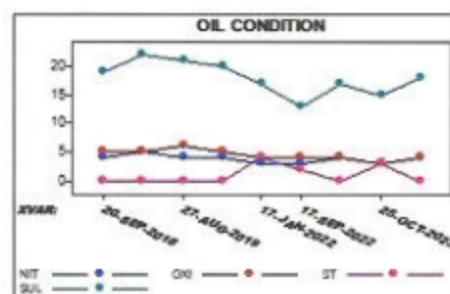
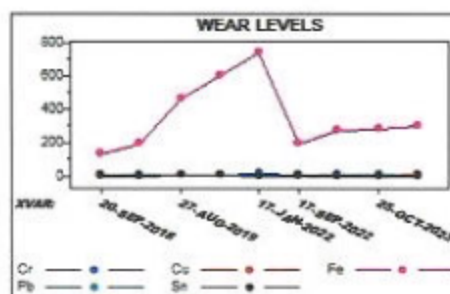
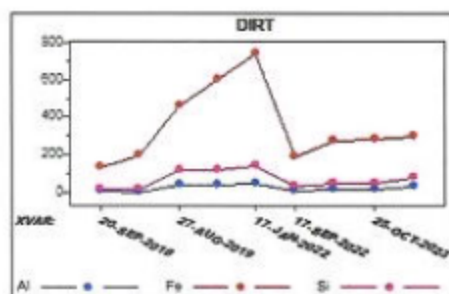
	15-Aug-24	25-Oct-23	12-Apr-23	17-Sep-22
PARTICLE COUNT - ISO 11171:1999 reported per ISO 4406				
ISO ISO Code Rating	23/22/20	MAG	23/23/22	23/23/21
4µ 4µ	40977		78354	78724
6µ 6µ	31028		67443	64270
10µ 10µ	14827		46150	34997
14µ 14µ	5946		26259	12935
18µ 18µ			13990	4052
21µ 21µ	1209		7586	1488
25µ 25µ	413			
38µ 38µ	16		132	14
70µ 70µ	1		4	2

PARTCL VOL INDICATOR

PVI PVI	12.62	MAG	86.81	41.82
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DEBRIS

Debrl Debris	N	N	N	N
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Report Comment

**FINAL DRIVE FRONT
RIGHT**

H160-54235-0113

LABEL#: 1119327

SAMPLE SHIP TIME (days) : 7

RECEIVED DATE: 22-Aug-24

EQUIP NUM: HE120

UNKNOWN UNKNOWN



Monitor Compartment

SILICON, ALUMINUM ARE SLIGHTLY ELEVATED.
BE NORMAL. MONITOR COMPARTMENT.

SERIAL NUMBER: FF180GXACE020100

INSPECT FOR POSSIBLE DIRT ENTRY. ALL OTHER RESULTS APPEAR TO

SAMPLE INFORMATION



Sampled Date	15-Aug-24	25-Oct-23	12-Apr-23	17-Sep-22
Sample Id	H160-54235-0113	H160-53317-0018	H160-53114-0114	H160-52269-0227
Sampled By	RS			
Lab Date	22-Aug-24	13-Nov-23	24-Apr-23	26-Sep-22
Meter [Hr]	8162	7600	7078	6540
Comp Meter [Hr]	8162	7600	7078	6540
Meter On Fluid	8162	7600	7078	6540
Fluid Brand				
Fluid Weight	50	50		
Fluid Type				
Fluid Change	N	N	N	U
Filter Change	N	U	N	U
Kidney Loop	U	U	U	U
Total Fluid Added	0	0	0	0

WEAR LEVELS / ADDITIVES

	15-Aug-24	25-Oct-23	12-Apr-23	17-Sep-22
ELEMENTAL ANALYSIS (PPM) ASTM D6185 (OIL) / ASTM D6130 (COOLANT)				
Cu Copper	1	1	0	0
Fe Iron	262	292	220	218
Cr Chromium	3	4	3	3
Al Aluminum	15	25	21	8
Pb Lead	0	0	0	0
Sn Tin	0	1	3	7
Si Silicon	43	72	58	32
Na Sodium	0	4	2	3
K Potassium	4	9	5	4
Mo Molybdenum	7	7	7	9
Ni Nickel	2	1	1	1
Ag Silver	0	0	0	0
Ti Titanium	1	2	1	1
V Vanadium	0	0	0	0
Mn Manganese	3	5	4	3
Ca Calcium	115	113	107	111
P Phosphorus	445	400	395	464
Zn Zinc	59	51	53	54
Mg Magnesium	8	9	8	4
Ba Barium	1	1	1	1
B Boron	42	40	39	48

PREVIOUS SAMPLE

MAGNETIC DEBRIS FOUND IN SAMPLE. INSPECT MAGNETIC PLUGS. SOME METALLIC FUZZ IS NORMAL. METALLIC CHIPS OR FLAKES INDICATE ABNORMAL WEAR. SILICON / ALUMINUM ARE ELEVATED. INSPECT FOR DIRT ENTRY / REPAIR AS NECESSARY. ELEVATED IRON MAY BE SOURCED TO WEAR OF GEARS, SPLINES, SHAFTS, HOUSING, BEARINGS... MONITOR COMPARTMENT.

For additional sample history, go to:

[S.O.S WEB](#)

CONDITION / CONTAMINATION

	15-Aug-24	25-Oct-23	12-Apr-23	17-Sep-22
VISCOSITY (CENTISTOKES) ASTM D445				
V100 Viscosity at 100 C	20.30	20.30	20.90	19.90

INFRARED (UFM) ASTM E2412

ST Soot	0	3	0	2
OXI Oxidation	4	4	4	4
SUL Sulfur Products	18	15	15	13
NIT Nitration	4	3	4	3

WATER

W Water	N	N	N	N
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CLEANLINESS

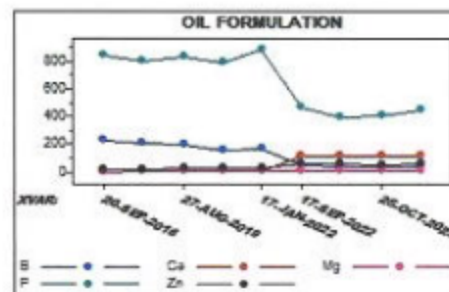
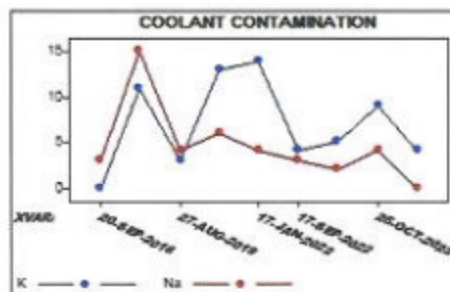
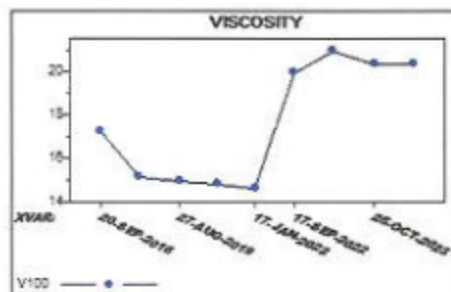
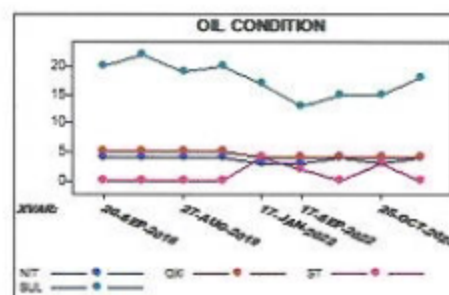
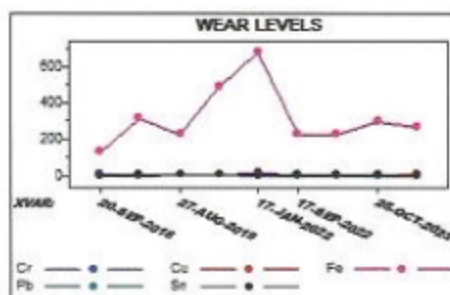
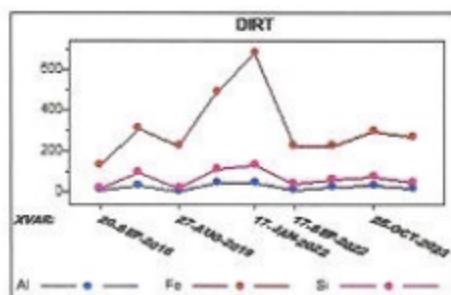
	15-Aug-24	25-Oct-23	12-Apr-23	17-Sep-22
PARTICLE COUNT - ISO 11171:1999 reported per ISO 4408				
ISO ISO Code Rating	23/22/20	MAG	23/23/21	23/23/22
4µ 4µ	41717		79926	78769
6µ 6µ	30651		67429	67366
10µ 10µ	13752		41810	44930
14µ 14µ	5513		18945	24631
18µ 18µ			6910	12908
21µ 21µ	1312		2429	7123
26µ 25µ	506			
38µ 38µ	19		10	159
70µ 70µ	0		0	4

PARTCL VOL INDICATOR

PVI PVI	12.81	MAG	55.65	83.08
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DEBRIS

Debr Debris	N	N	N	N
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Report Comment

HYDRAULIC SYSTEM

EQUIP NUM: HE120

SERIAL NUMBER: FF180GXACE020100

H160-54235-0112

LABEL#: 1121504

SAMPLE SHIP TIME (days) : 7

RECEIVED DATE: 22-Aug-24

UNKNOWN UNKNOWN

Monitor Compartment



PARTICLE COUNT IS ELEVATED. ALL OTHER RESULTS APPEAR TO BE NORMAL. MONITOR COMPARTMENT.

SAMPLE INFORMATION

	15-Aug-24	25-Oct-23	12-Apr-23	17-Sep-22
Sampled Date	15-Aug-24	25-Oct-23	12-Apr-23	17-Sep-22
Sample Id	H160-54235-0112	H160-53317-0016	H160-53114-0111	H160-52269-0225
Sampled By	RS			
Lab Date	22-Aug-24	13-Nov-23	24-Apr-23	26-Sep-22
Meter [Hr]	8162	7600	7074	6540
Comp Meter [Hr]	8162	7600	7074	6540
Meter On Fluid	8162	7600	7074	6540
Fluid Brand				
Fluid Weight	15W-40	15W-40		
Fluid Type				
Fluid Change	N	N	N	U
Filter Change	Y	Y	N	U
Kidney Loop	U	U	U	U
Total Fluid Added	0	0	0	0

WEAR LEVELS / ADDITIVES

	15-Aug-24	25-Oct-23	12-Apr-23	17-Sep-22
ELEMENTAL ANALYSIS (PPM) ASTM D6185 (OIL) / ASTM D6130 (COOLANT)				
Cu Copper	5	7	6	6
Fe Iron	26	30	27	22
Cr Chromium	2	2	2	1
Al Aluminum	8	8	8	0
Pb Lead	0	2	1	0
Sn Tin	0	1	2	0
Si Silicon	15	17	15	12
Na Sodium	1	7	4	7
K Potassium	3	6	2	4
Mo Molybdenum	9	5	4	2
Ni Nickel	1	0	1	0
Ag Silver	0	0	0	0
Ti Titanium	1	3	1	1
V Vanadium	0	0	0	0
Mn Manganese	1	1	1	1
Ca Calcium	1224	825	677	630
P Phosphorus	802	743	707	710
Zn Zinc	720	577	543	507
Mg Magnesium	174	262	254	230
Ba Barium	0	0	0	0
B Boron	34	41	36	38

PREVIOUS SAMPLE

PARTICLE COUNT IS ELEVATED. IRON IS ELEVATED. INDICATES POSSIBLE CYLINDER / PUMP WEAR. MONITOR COMPARTMENT.

For additional sample history, go to:

[S.O.S WEB](#)

CONDITION / CONTAMINATION

	15-Aug-24	25-Oct-23	12-Apr-23	17-Sep-22
VISCOSITY (CENTISTOKES) ASTM D445				
V100 Viscosity at 100 C	9.000	8.300	8.100	8.100

INFRARED (UPM) ASTM E2412

ST Soot	0	1	0	1
OXI Oxidation	9	9	10	9
SUL Sulfur Products	20	18	21	16
NIT Nitration	6	6	6	5

WATER

W Water	N	N	N	N
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ANTIFREEZE

A Antifreeze	N	N	N	N
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CLEANLINESS

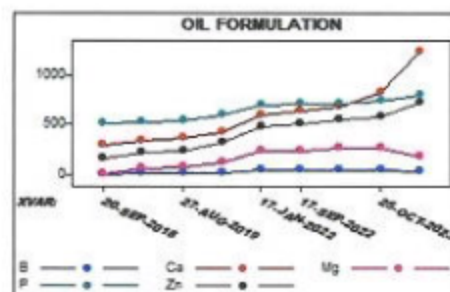
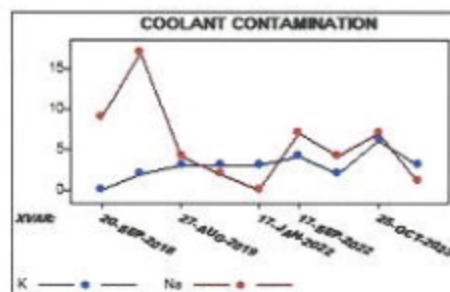
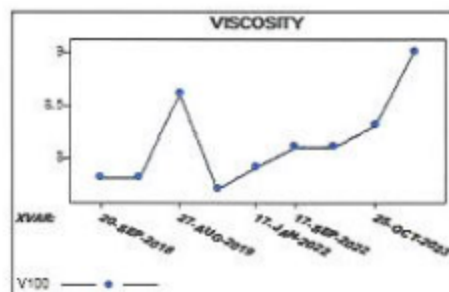
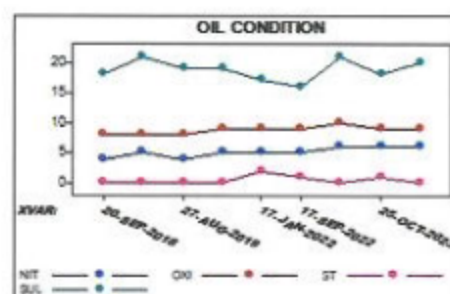
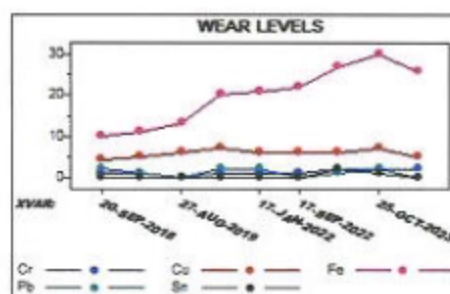
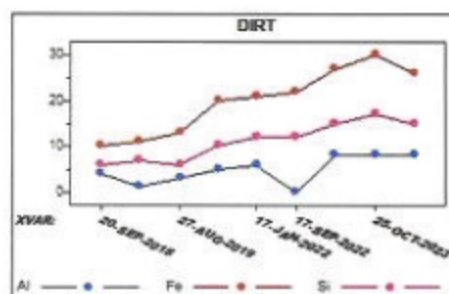
	15-Aug-24	25-Oct-23	12-Apr-23	17-Sep-22
PARTICLE COUNT - ISO 11171:1999 reported per ISO 4406				
ISO ISO Code Rating	22/20/12	23/20/13	19/17/13	21/18/14
4µ 4µ	34629	48622	3943	10006
6µ 6µ	5849	8287	690	1644
10µ 10µ	137	396	143	365
14µ 14µ	28	58	56	128
18µ 18µ			28	51
21µ 21µ	10	6	17	31
25µ 25µ	6	1		
38µ 38µ	1	0	3	3
70µ 70µ	0	0	1	0

PARTCL VOL INDICATOR

PVI PVI	1.66	2.34	0.57	0.90
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DEBRIS

Debris Debris	N	N	N	N
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Report Comment

SWING DRIVE FRONT

EQUIP NUM: HE120

SERIAL NUMBER: FF180GXACE020100

H160-54235-0115

LABEL#: 1123698

SAMPLE SHIP TIME (days) : 7

RECEIVED DATE: 22-Aug-24

UNKNOWN UNKNOWN

No Action Required

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

SAMPLE INFORMATION

	15-Aug-24	25-Oct-23	12-Apr-23	17-Sep-22
Sample Id	H160-54235-0115	H160-53317-0019	H160-53114-0112	H160-52269-0228
Sampled By	RS			
Lab Date	22-Aug-24	13-Nov-23	24-Apr-23	26-Sep-22
Meter [Hr]	8162	7600	7074	6540
Comp Meter [Hr]	8162	7600	7074	6540
Meter On Fluid	8162	7600	7074	6540
Fluid Brand				
Fluid Weight	50	50		
Fluid Type				
Fluid Change	N	N	N	U
Filter Change	N	U	N	U
Kidney Loop	U	U	U	U
Total Fluid Added	0	0	0	0

WEAR LEVELS / ADDITIVES

	15-Aug-24	25-Oct-23	12-Apr-23	17-Sep-22
ELEMENTAL ANALYSIS (PPM) ASTM D8165 (OIL) / ASTM D6130 (COOLANT)				
Cu Copper	1	1	1	1
Fe Iron	199	190	170	172
Cr Chromium	2	2	2	2
Al Aluminum	13	12	10	13
Pb Lead	0	0	0	0
Sn Tin	0	0	1	7
Si Silicon	39	40	34	33
Na Sodium	0	3	1	6
K Potassium	4	6	3	3
Mo Molybdenum	6	4	4	0
Ni Nickel	1	0	0	0
Ag Silver	0	0	0	0
Ti Titanium	1	1	1	1
V Vanadium	0	0	0	0
Mn Manganese	2	2	2	2
Ca Calcium	113	131	118	14
P Phosphorus	835	852	804	867
Zn Zinc	105	111	108	13
Mg Magnesium	36	42	44	5
Ba Barium	1	1	1	2
B Boron	174	180	160	164

PREVIOUS SAMPLE

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

	15-Aug-24	25-Oct-23	12-Apr-23	17-Sep-22
VISCOSITY (CENTISTOKES) ASTM D445				
V100 Viscosity at 100 C	14.60	14.50	14.60	14.50

INFRARED (UFM) ASTM E2412

ST Soot	0	2	0	2
OXI Oxidation	5	4	5	4
SUL Sulfur Products	23	19	20	17
NIT Nitration	4	3	3	3

WATER

W Water	N	N	N	N
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CLEANLINESS

	15-Aug-24	25-Oct-23	12-Apr-23	17-Sep-22
PARTICLE COUNT - ISO 11171:1999 reported per ISO 4406				
ISO ISO Code Rating	24/23/19	23/21/13	24/23/17	23/23/17
4µ 4µ	91883	71889	81949	79266
6µ 6µ	56294	16626	52088	49712
10µ 10µ	14691	449	8939	7842
14µ 14µ	3106	48	857	670
18µ 18µ			237	198
21µ 21µ	383	5	128	112
25µ 25µ	122	1		
38µ 38µ	5	0	14	10
70µ 70µ	0	0	5	2

PARTIC VOL INDICATOR

PVI PVI	13.31	3.74	12.46	10.99
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DEBRIS

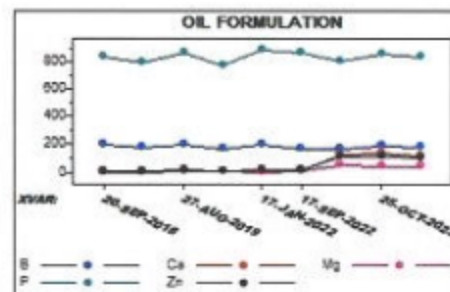
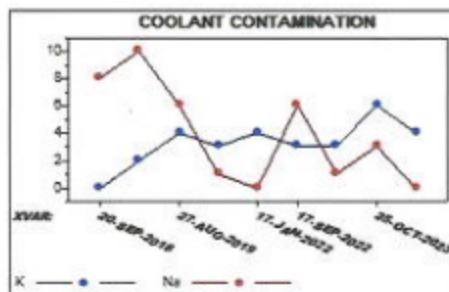
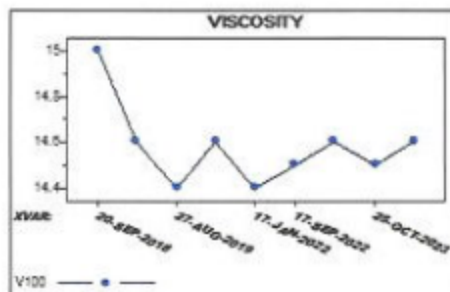
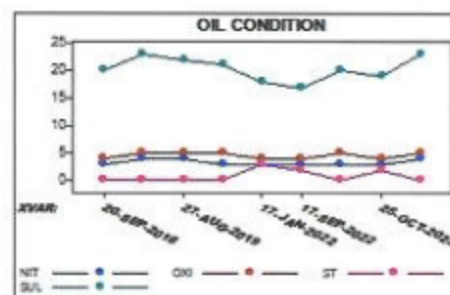
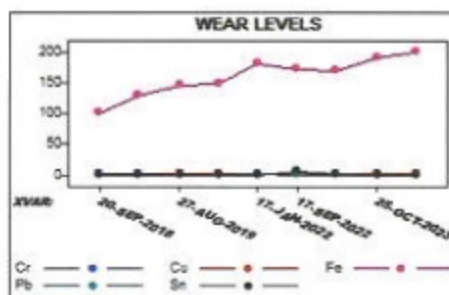
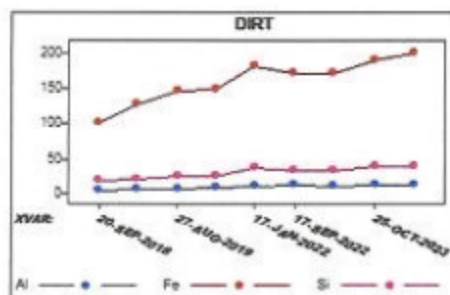
Debr Debris	N	N	N	N
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SWING DRIVE FRONT
SERIAL NUMBER: FF180GXACE020100
EQUIP NUM: HE120
UNKNOWN UNKNOWN

H160-54235-0115



No Action Required



Report Comment