

ENGINE REAR

EQUIP NUM: 0356

SERIAL NUMBER: 1DL00356

E250-55336-1232

SHOP JOB NUM : SAMMER

FIELD

SAMPLE SHIP TIME (days) : 7

SAVERY CREEK

ENTERPRISES

RECEIVED DATE: 02-Dec-25

CAT 627F

No Action Required

WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL.

Interp By: Tara Braden
Interpreted On: 03-Dec-25

SAMPLE INFORMATION

	25-Nov-25	05-Aug-25
Sampled Date	25-Nov-25	05-Aug-25
Sample Id	E250-55336-1232	E250-55223-1152
Lab Date	02-Dec-25	11-Aug-25
Meter [Hr]	18958	18763
Comp Meter [Hr]	18958	18763
Meter On Fluid	205	260
Fluid Brand		
Fluid Weight	15W-40	15W-40
Fluid Type		
Fluid Change	Y	Y
Filter Change	Y	Y
Kidney Loop	U	U
Total Fluid Added	0	0

PREVIOUS SAMPLE

FIRST TIME SAMPLE, NO TREND ESTABLISHED. NO ABNORMAL VALUES EVIDENT AT THIS TIME. MORE SAMPLE HISTORY NEEDED TO ESTABLISH A NORMAL WEAR TREND.

For additional sample history, go to:

S.O.S WEB

CONDITION / CONTAMINATION

	25-Nov-25	05-Aug-25
VISCOSITY (CENTISTOKES) ASTM D445		
V100 Viscosity at 100 C	13.05	13.46

INFRARED (UFM) ASTM E2412

ST	Soot	8	15
OXI	Oxidation	14	16
SUL	Sulfate By-Product	21	21
NIT	Nitration	0	0

WEAR LEVELS / ADDITIVES

25-Nov-25 05-Aug-25

ELEMENTAL ANALYSIS (PPM) ASTM D6185 (OIL) / ASTM D6130 (COOLANT)

Cu	Copper	1	2
Fe	Iron	12	22
Cr	Chromium	1	2
Al	Aluminum	1	4
Pb	Lead	0	1
Sn	Tin	0	1
Si	Silicon	5	10
Na	Sodium	1	0
K	Potassium	1	2
Mo	Molybdenum	15	60
Ni	Nickel	0	1
Ag	Silver	0	0
Ca	Calcium	2152	2320
P	Phosphorus	854	1027
Zn	Zinc	989	1233
Mg	Magnesium	44	58
B	Boron	13	45

WATER

W	Water	N	N
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ANTIFREEZE

A	Antifreeze	N	N
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FUEL

F	Fuel	N	N
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ENGINE FRONT

EQUIP NUM: 0356

SERIAL NUMBER: 1DL00356

CAT 627F

 No Action Required

Interp By: Tara Braden
Interpreted On: 08-Dec-25

E250-55336-1253

SHOP JOB NUM : SAMMER

FIELD

SAMPLE SHIP TIME (days) : 7

SAVERY CREEK

ENTERPRISES

RECEIVED DATE: 02-Dec-25

COPPER AND LEAD WEAR RATES ARE IMPROVING, BUT REMAIN SLIGHTLY HIGH. THIS MAY BE CARRY-OVER FROM THE PREVIOUS OIL CHANGE. IF ALL PRELIMINARY CHECKS ARE NORMAL THEN RESAMPLE AT THE NORMAL INTERVAL.

SAMPLE INFORMATION

	25-Nov-25	05-Aug-25	22-Apr-25	07-Mar-25
Sampled Date	25-Nov-25	05-Aug-25	22-Apr-25	07-Mar-25
Sample Id	E250-55336-1253	E250-55223-1170	E250-55114-1106	E250-55073-1148
Lab Date	02-Dec-25	11-Aug-25	24-Apr-25	14-Mar-25
Meter [Hr]	18958	18763	18502	18246
Comp Meter [Hr]	18958	18763	18502	18246
Meter On Fluid	205	260	256	309
Fluid Brand				
Fluid Weight	15W-40	15W-40	15W-40	15W-40
Fluid Type				
Fluid Change	Y	Y	U	Y
Filter Change	Y	Y	U	Y
Kidney Loop	U	U	U	U
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

MODERATELY ELEVATED SOOT LEVEL MAY RELATE TO INTAKE RESTRICTION, A/F RATIO, ENG. TEMP, OIL SERVICE, LOAD, BOOST, IDLE TIMES. ELEVATED OXIDATION CAN RESULT FROM HIGHER TEMPERATURES, EXTENDED OIL SERVICE DURATION. LEAD IS ELEVATED. ELEVATED LEAD / TIN PRIMARILY SOURCED TO BEARING OVERLAY. COPPER IS ELEVATED. COPPER MAY BE ASSOCIATED WITH OIL COOLER LEACHING, SOME SECONDARY BUSHING/ BEARING WEAR. INSPECT. ACTION REQUIRED.

For additional sample history, go to:

S.O.S WEB

CONDITION / CONTAMINATION

	25-Nov-25	05-Aug-25	22-Apr-25	07-Mar-25
VISCOSITY (CENTISTOKES) ASTM D446				
V100 Viscosity at 100 C	14.55	16.03	16.6	16.0

WEAR LEVELS / ADDITIVES

	25-Nov-25	05-Aug-25	22-Apr-25	07-Mar-25
ELEMENTAL ANALYSIS (PPM) ASTM D5185 (OIL) / ASTM D6130 (COOLANT)				
Cu Copper	10	12	13	10
Fe Iron	38	50	54	45
Cr Chromium	1	1	1	1
Al Aluminum	1	3	3	2
Pb Lead	5	18	18	11
Sn Tin	0	3	2	2
Si Silicon	4	5	8	6
Na Sodium	5	0	3	5
K Potassium	4	1	1	4
Mo Molybdenum	25	62	103	94
Ni Nickel	0	1	1	0
Ag Silver	0	0	0	0
Ca Calcium	2902	2696	3051	2700
P Phosphorus	1054	1158	1393	1222
Zn Zinc	1321	1418	1584	1464
Mg Magnesium	65	70	59	86
B Boron	18	40	76	68

INFRARED (IR) ASTM E2412

ST Soot	68	88	90	95
OXI Oxidation	23	30	31	32
SUL Sulfate By-Product	27	32	31	32
NIT Nitration	0	0	0	0

WATER

W Water	N	N	N	N
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ANTIFREEZE

A Antifreeze	N	N	N	N
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FUEL

F Fuel	N	N	N	N
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TRANSMISSION POWER
SHIFT FRONT

E250-55140-3049

SHOP JOB NUM : TALON

POINTE

SAMPLE SHIP TIME (days) : 4

SAVERY CREEK

ENTERPRISES

RECEIVED DATE: 20-May-25

EQUIP NUM: 0356

CAT 627F


No Action Required

WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL.

SERIAL NUMBER: 1DL00356

Interp By: Mary Gossett
Interpreted On: 28-May-25

SAMPLE INFORMATION


Sampled Date 16-May-25
Sample Id E250-55140-3049
Lab Date 20-May-25
Meter [Hr] 18605
Comp Meter [Hr] 18605
Meter On Fluid 18605
Fluid Brand
Fluid Weight 30
Fluid Type
Fluid Change Y
Filter Change Y
Kidney Loop U
Total Fluid Added 0

For additional sample history, go to:

S.O.S WEB

CONDITION / CONTAMINATION

16-May-25

VISCOSITY (CENTISTOKES) ASTM D445

V100 Viscosity at 100 C 9.8

INFRARED (UEM) ASTM E2412

ST	Soot	0
OXI	Oxidation	4
SUL	Sulfate By-Product	13
NIT	Nitration	0

WATER

W Water N

WEAR LEVELS / ADDITIVES

16-May-25

ELEMENTAL ANALYSIS (PPM) ASTM D6185 (OIL) / ASTM D6130 (COOLANT)

Cu	Copper	28
Fe	Iron	11
Cr	Chromium	0
Al	Aluminum	0
Pb	Lead	4
Sn	Tin	2
Si	Silicon	5
Na	Sodium	1
K	Potassium	1
Mo	Molybdenum	3
Ni	Nickel	0
Ag	Silver	0
Ca	Calcium	2322
P	Phosphorus	866
Zn	Zinc	1042
Mg	Magnesium	14
B	Boron	4

ANTIFREEZE

A Antifreeze N

CLEANLINESS

16-May-25

PARTICLE COUNT - ISO 11171:1999 reported per ISO 4406

ISO	ISO Code Rating	22/19/14
4μ	4μ	33885
6μ	6μ	4320
10μ	10μ	355
14μ	14μ	125
21μ	21μ	50
38μ	38μ	10

TRANSMISSION POWER

SHIFT REAR

E250-55140-3050

SHOP JOB NUM : TALON

POINTE

SAMPLE SHIP TIME (days) : 4

SAVERY CREEK

ENTERPRISES

RECEIVED DATE: 20-May-25

EQUIP NUM: 0356

CAT 627F



No Action Required

WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL.

SERIAL NUMBER: 1DL00356

Interp By: Mary Gossett

Interpreted On: 28-May-25

SAMPLE INFORMATION

Sampled Date 16-May-25
 Sample Id E250-55140-3050
 Lab Date 20-May-25
 Meter [Hr] 18605
 Comp Meter [Hr] 18605
 Meter On Fluid 18605
 Fluid Brand
 Fluid Weight 30
 Fluid Type
 Fluid Change Y
 Filter Change Y
 Kidney Loop U
 Total Fluid Added 0

For additional sample history, go to:

S.O.S WEB

CONDITION / CONTAMINATION

16-May-25

VISCOSITY (CENTISTOKES) ASTM D445

V100 Viscosity at 100 C 11.3

INFRARED (UFM) ASTM E2412

ST	Soot	0
OXI	Oxidation	4
SUL	Sulfate By-Product	14
NIT	Nitration	0

WATER

W Water N

WEAR LEVELS / ADDITIVES

16-May-25

ELEMENTAL ANALYSIS (PPM) ASTM D5185 (OIL) / ASTM D6180 (COOLANT)

Cu	Copper	10
Fe	Iron	11
Cr	Chromium	0
Al	Aluminum	1
Pb	Lead	0
Sn	Tin	0
Si	Silicon	5
Na	Sodium	3
K	Potassium	2
Mo	Molybdenum	1
Ni	Nickel	0
Ag	Silver	0
Ca	Calcium	2404
P	Phosphorus	855
Zn	Zinc	1044
Mg	Magnesium	11
B	Boron	3

ANTIFREEZE

A Antifreeze N

CLEANLINESS

16-May-25

PARTICLE COUNT - ISO 11171:1999 reported per ISO 4406

ISO	ISO Code Rating	20/17/13
4μ	4μ	7305
6μ	6μ	810
10μ	10μ	115
14μ	14μ	45
21μ	21μ	15
38μ	38μ	0