



ENGINE

EQUIP NUM: 3512 XQ

SERIAL NUMBER: 24Z07561

D430-54151-1593

LABEL#: P

SAMPLE SHIP TIME (days) : 2

USED CAT MACH RENT

FLEET LKE

DECATUR WORK ORDER <

LINKED > HURSHEL MILES

LOCATION: BHAM EPG

RECEIVED DATE: 30-May-24

CAT 3512



No Action Required

Interp By: Fluid Interpreter

Interpreted On: 30-May-24

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

SAMPLE INFORMATION

	28-May-24	29-Apr-24	18-Mar-22	18-Oct-20
Sampled Date	28-May-24	29-Apr-24	18-Mar-22	18-Oct-20
Sample Id	D430-54151-1593	D430-54142-1186	D430-52082-0384	E459-50366-1144
Lab Date	30-May-24	21-May-24	23-Mar-22	31-Dec-20
Meter [Hr]	0	3622	2800	2056
Meter On Fluid	0	822	744	500
Fluid Brand				
Fluid Weight	15W-40	15W-40	15W-40	15W-40
Fluid Type				
Fluid Change	U	Y	Y	Y
Filter Change	U	Y	Y	Y
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

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

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

CONDITION / CONTAMINATION

	28-May-24	29-Apr-24	18-Mar-22	18-Oct-20
VISCOSITY (CENTISTOKES) ASTM D445				
V100 Viscosity at 100 C	13.51	11.83	12.40	12.0

INFRARED (UFM) ASTM E2412

	28-May-24	29-Apr-24	18-Mar-22	18-Oct-20
ST Soot	0	0	0	3
OXI Oxidation	19	21	17	13
SUL Sulfur Products	22	23	21	18
NIT Nitration	0	0	8	7

WEAR LEVELS / ADDITIVES

	28-May-24	29-Apr-24	18-Mar-22	18-Oct-20
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]				
Cu Copper	0	2	2	6
Fe Iron	2	10	13	16
Cr Chromium	0	0	1	1
Al Aluminum	0	2	3	7
Pb Lead	0	1	0	2
Sn Tin	0	1	1	1
Si Silicon	8	9	13	25
Na Sodium	5	3	2	2
K Potassium	0	0	3	6
Mo Molybdenum	40	53	90	62
Ni Nickel	0	0	1	1
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	
V Vanadium	0	0	0	
Mn Manganese	0	0	0	
Cd Cadmium	0	0	0	
Ca Calcium	1808	1704	1636	1684
P Phosphorus	999	968	1094	938
Zn Zinc	1202	1155	1207	1108
Mg Magnesium	546	542	559	386
Ba Barium	0	0	0	
B Boron	69	80	161	41

WATER

	28-May-24	29-Apr-24	18-Mar-22	18-Oct-20
W Water	N	N	N	N

ANTIFREEZE

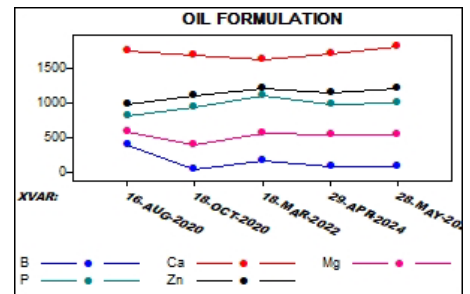
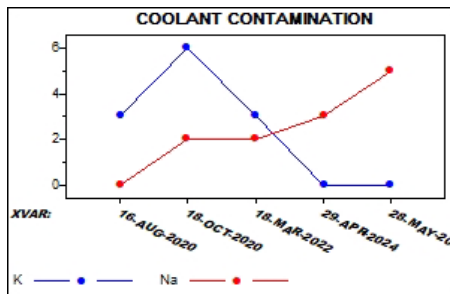
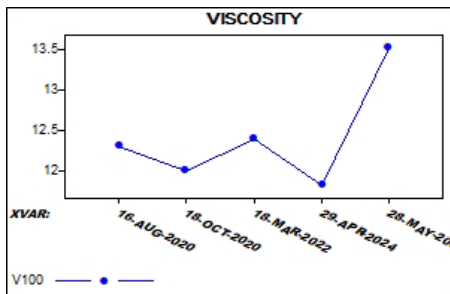
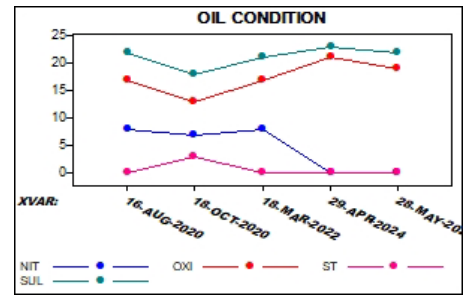
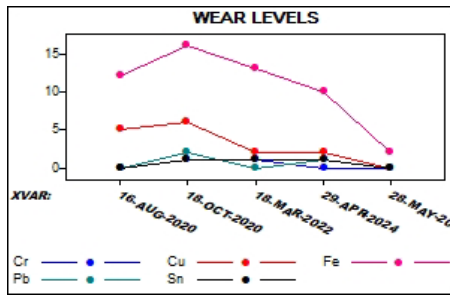
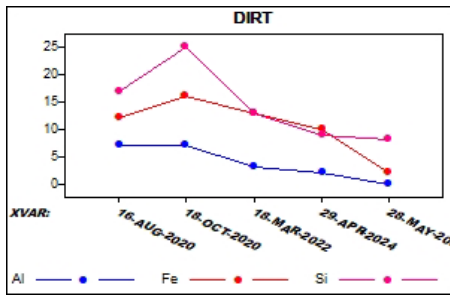
	28-May-24	29-Apr-24	18-Mar-22	18-Oct-20
A Antifreeze	N	N	N	N

FUEL

	28-May-24	29-Apr-24	18-Mar-22	18-Oct-20
F Fuel	N	N	N	N

FUEL CONTENT (%) ASTM D3524

	28-May-24	29-Apr-24	18-Mar-22	18-Oct-20
PFc Percent Fuel		4.45	3.18	0



Report Comment

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJVUrs>



RADIATOR

EQUIP NUM: 3512 XQ

SERIAL NUMBER: 24Z07561

D430-54151-9943

LABEL#: P

SAMPLE SHIP TIME (days) : 2

USED CAT MACH RENT

FLEET LKE

DECATUR WORK ORDER <

LINKED > HURSHEL MILES

RECEIVED DATE: 30-May-24

CAT 3512



No Action Required

Interp By: Doug Parker
Interpreted On: 29-May-24

NORMAL LEVEL 1 READINGS. CONTINUE TO USE COOLANT. CONTINUE SAMPLING AT REGULAR INTERVALS TO MONITOR COOLING SYSTEM.

SAMPLE INFORMATION

	28-May-24	18-Mar-22
Sampled Date	28-May-24	18-Mar-22
Sample Id	D430-54151-9943	D430-52095-9166
Lab Date	30-May-24	05-Apr-22
Meter [Hr]	0	2800
Meter On Fluid	0	2800
Fluid Brand		
Fluid Weight		
Fluid Type		
Fluid Change	U	N
Filter Change	U	U
Total Fluid Added	0	0

CORROSION LEVELS/ CHEMISTRY

	28-May-24	18-Mar-22
NO2 Nitrite	1058	

ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]

Cu	Copper	0
Fe	Iron	0
Pb	Lead	0
Sn	Tin	1
Al	Aluminum	0
Zn	Zinc	0
Na	Sodium	3921
K	Potassium	91
Mo	Molybdenum	352

ANION ANALYSIS (PPM) ASTM D4327

NO2	Nitrite	201
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ADDITIONAL ANALYTES (PPM)

MoO4	Molybdate	587
BO3	Borate	84
SiO3	Silicate	8

PREVIOUS SAMPLE

INHIBITOR LEVEL IS TOO LOW TO PROVIDE CORROSION/EROSION PROTECTION. RECOMMEND ADDING 3 BOTTLES OF ELC EXTENDER (CAT P/N 119-5152) TO BOOST INHIBITOR. SAMPLE AGAIN AT HALF THE REGULAR INTERVAL TO MONITOR INHIBITOR LEVELS.

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

ADDITIONAL CHARACTERISTICS

	28-May-24	18-Mar-22
ADDITIONAL ANALYTES (PPM)		
PO4 Phosphate		6
TH Total Hardness		29
REFRACTIVE INDEX		
GL Glycol (%)	48	49
FP Freeze Point (°C)	-34	-36
BP Boil Point (°C)	107	107

pH ASTM D1287

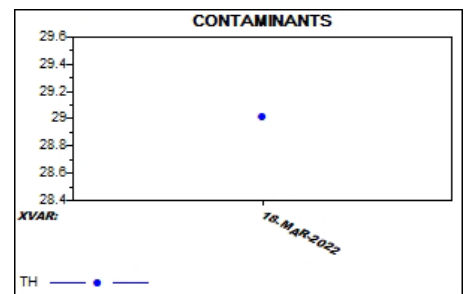
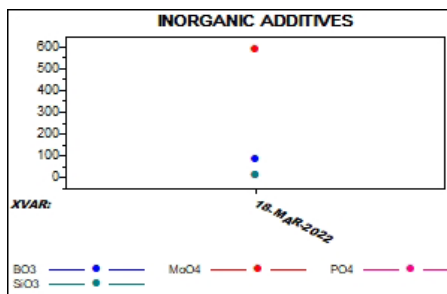
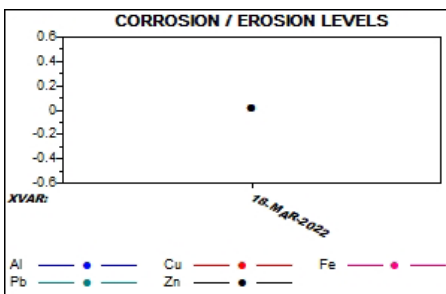
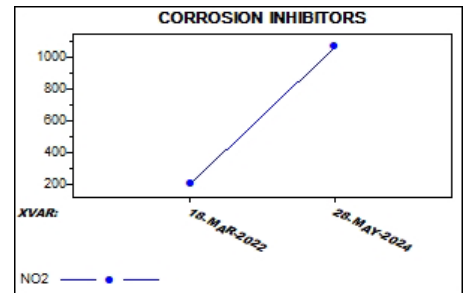
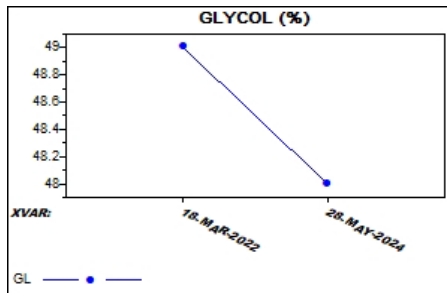
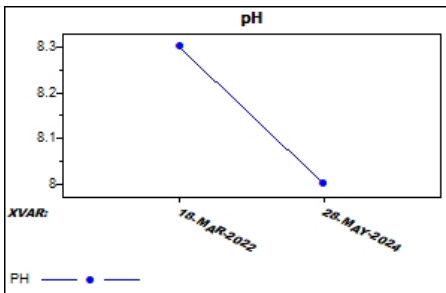
pH	pH	8.0	8.3
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CONDUCTIVITY (µS/cm)

CON	Conductivity	3685	3742
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PHYSICAL CHARACTERISTICS

	28-May-24	18-Mar-22	
PHYSICAL			
Color	Color	red	red
App	Appearance	clear	clear
Odor	Odor		norm
Oil	Oil	none	none
Foam	Foam	norm	norm
PAmt	Precip Amount	none	none
PApp	Precip Appearance	N/A	
PCol	Precip Color	N/A	
PProp	Precip Property	non-mag	



Report Comment

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