



CARTER MACHINERY COMPANY, INC. -- Fluids Analysis Laboratory --
 1330 Lynchburg Turnpike Salem, VA 24153-5457 USA
 PHONE: 540-682-2621
 Web: www.cartermachinery.com Email: FluidAnalysis@cartermachinery.com



MARINE GEAR

STARBOARD

D100-54215-0578

SAMPLE SHIP TIME (days) : 1

DIGGS DIESEL

RECEIVED DATE: 02-Aug-24

EQUIP NUM: 20047197

ZF ZF350A_ZF

SERIAL NUMBER: 20047197



Action Required

Interp By: Robert W Hobson

Interpreted On: 02-Aug-24

HIGH WATER CONCENTRATION (>1% H2O). COPPER LEVEL APPEARS HIGH. OTHER READINGS APPEAR TO BE NORMAL. CHECK POSSIBLE SOURCES OF CONTAMINATION. INSPECT FOR SOURCE OF WATER ENTRY INTO THE SYSTEM. CHANGE OIL IN COMPARTMENT. SHORT SAMPLE TO MONITOR COMPARTMENT.

SAMPLE INFORMATION



Sampled Date	01-Aug-24
Sample Id	D100-54215-0578
Lab Date	02-Aug-24
Meter [Hr]	0
Meter On Fluid	0
Fluid Brand	
Fluid Weight	30
Fluid Type	
Fluid Change	U
Filter Change	U

PREVIOUS SAMPLE

HIGH WATER CONCENTRATION (>1% H2O). COPPER LEVEL APPEARS HIGH. OTHER READINGS APPEAR TO BE NORMAL. CHECK POSSIBLE SOURCES OF CONTAMINATION. INSPECT FOR SOURCE OF WATER ENTRY INTO THE SYSTEM. CHANGE OIL IN COMPARTMENT. SHORT SAMPLE TO MONITOR COMPARTMENT.

CONDITION / CONTAMINATION

01-Aug-24

INFRARED (UFM) ASTM E2412

ST	Soot	2
OXI	Oxidation	5
SUL	Sulfur Products	12
NIT	Nitration	0

WATER

W	Water	P
---	-------	---

WEAR LEVELS / ADDITIVES

01-Aug-24

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

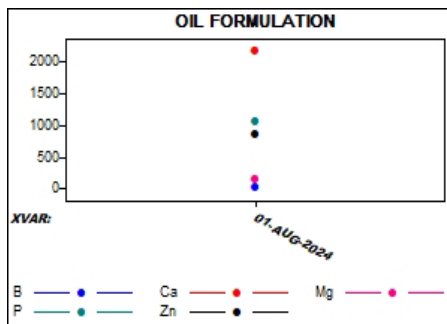
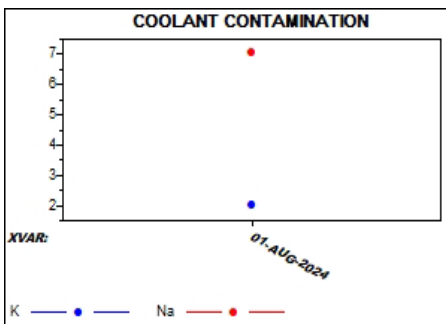
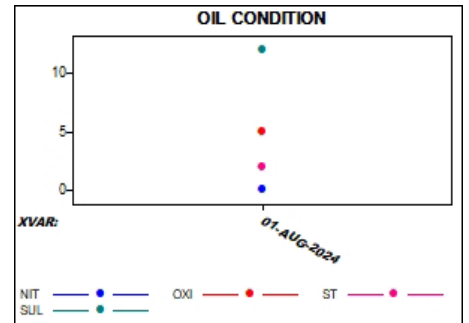
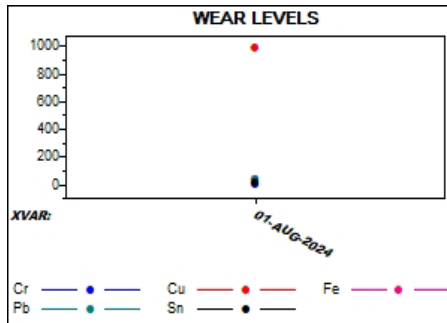
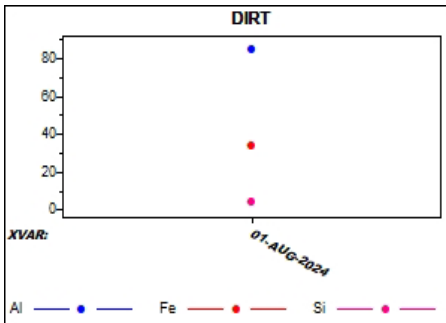
Cu	Copper	975
Fe	Iron	33
Cr	Chromium	0
Al	Aluminum	84
Pb	Lead	30
Sn	Tin	1
Si	Silicon	4
Na	Sodium	7
K	Potassium	2
Mo	Molybdenum	103
Ni	Nickel	5
Ag	Silver	0
Ti	Titanium	0
V	Vanadium	0
Ca	Calcium	2137
P	Phosphorus	1038
Zn	Zinc	834
Mg	Magnesium	147
B	Boron	21

CLEANLINESS

01-Aug-24

PARTICLE COUNT - ISO11171:1999 reported per ISO 4406

ISO	ISO Code Rating	H2O
-----	-----------------	-----



Report Comment

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