OIL ANALYSIS REPORT

WEAR	**NORMAL**	
CONTAMINATION	**NORMAL**	
FLUID CONDITION	**NORMAL**	

Machine Id
CATERPILLAR M318D EX4111 (S/N 0D8W00463)
Component
Front Axle
Fluid
DURALENE Dura-Trans TO-4 50 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

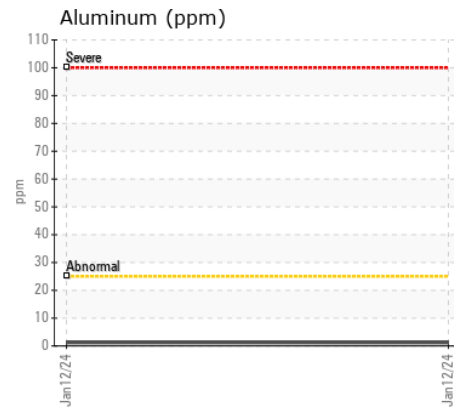| Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**DC0032516**	---	---
Sample Date		Client Info		**12 Jan 2024**	---	---
Machine Age	hrs	Client Info		**4796**	---	---
Oil Age	hrs	Client Info		**4796**	---	---
Filter Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**Not Changd**	---	---
Filter Changed		Client Info		**N/A**	---	---
Sample Status				**NORMAL**	---	---
Iron	ppm	ASTM D5185m	>500	**3**	---	---
Chromium	ppm	ASTM D5185m	>10	**0**	---	---
Nickel	ppm	ASTM D5185m	>10	**0**	---	---
Titanium	ppm	ASTM D5185m		**0**	---	---
Silver	ppm	ASTM D5185m		**0**	---	---
Aluminum	ppm	ASTM D5185m	>25	**1**	---	---
Lead	ppm	ASTM D5185m	>25	**0**	---	---
Copper	ppm	ASTM D5185m	>50	**1**	---	---
Tin	ppm	ASTM D5185m	>10	**0**	---	---
Vanadium	ppm	ASTM D5185m		**0**	---	---
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Silicon	ppm	ASTM D5185m	>75	**5**	---	---
Potassium	ppm	ASTM D5185m	>20	**0**	---	---
Water		WC Method	>0.2	**NEG**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	---	---
Appearance	scalar	*Visual	NORML	**NORML**	---	---
Odor	scalar	*Visual	NORML	**NORML**	---	---
Emulsified Water	scalar	*Visual	>0.2	**NEG**	---	---
Sodium	ppm	ASTM D5185m		**0**	---	---
Boron	ppm	ASTM D5185m		**<1**	---	---
Barium	ppm	ASTM D5185m		**0**	---	---
Molybdenum	ppm	ASTM D5185m		**6**	---	---
Manganese	ppm	ASTM D5185m		**<1**	---	---
Magnesium	ppm	ASTM D5185m		**80**	---	---
Calcium	ppm	ASTM D5185m		**2824**	---	---
Phosphorus	ppm	ASTM D5185m		**1028**	---	---
Zinc	ppm	ASTM D5185m		**1270**	---	---
Sulfur	ppm	ASTM D5185m		**11824**	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.65**	---	---
Visc @ 40°C	cSt	ASTM D445		**175**	---	---
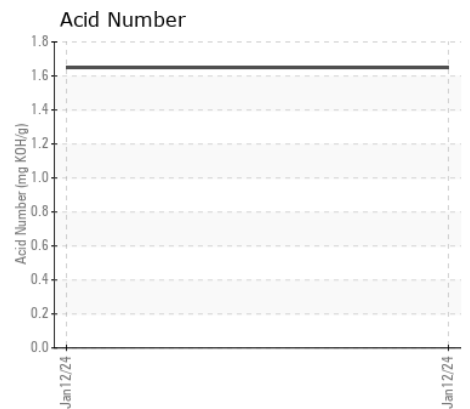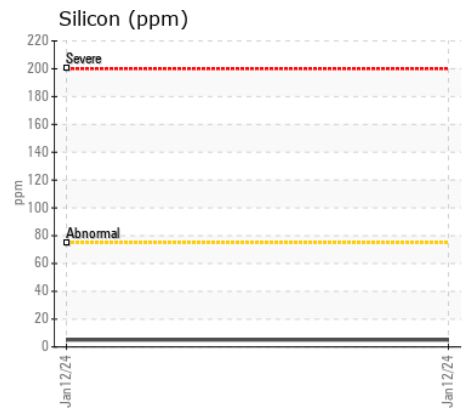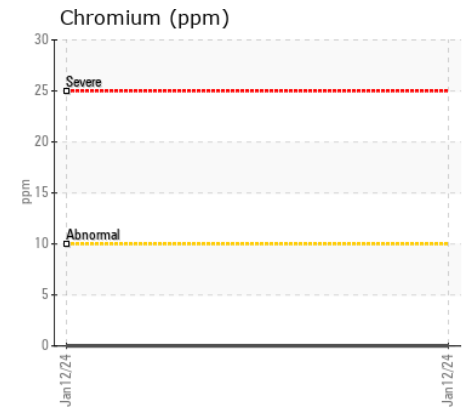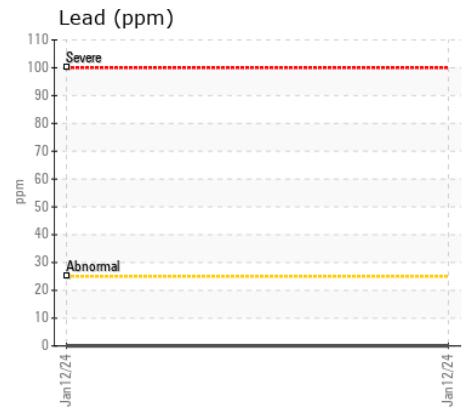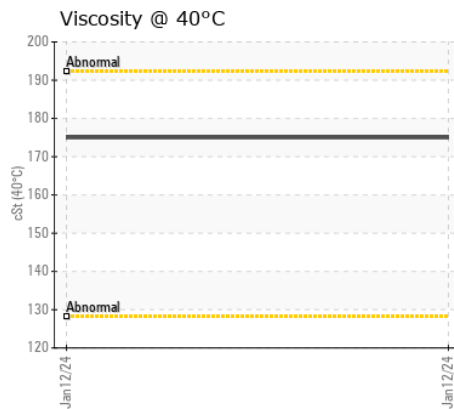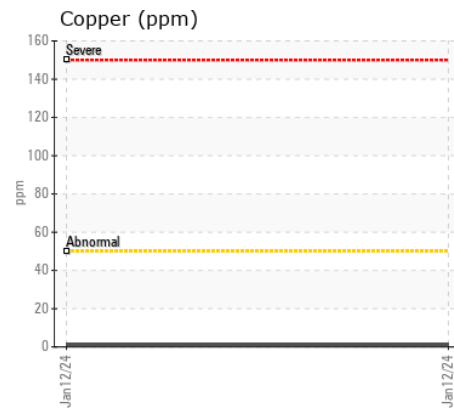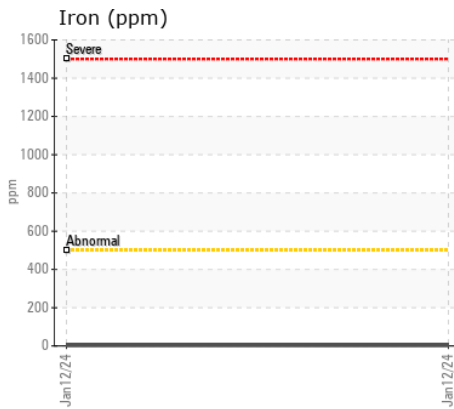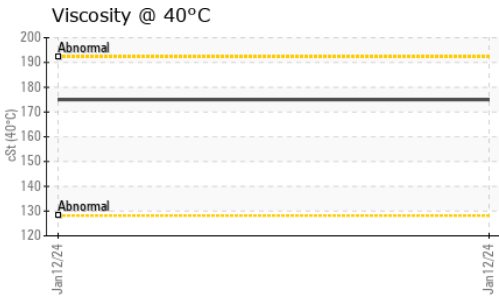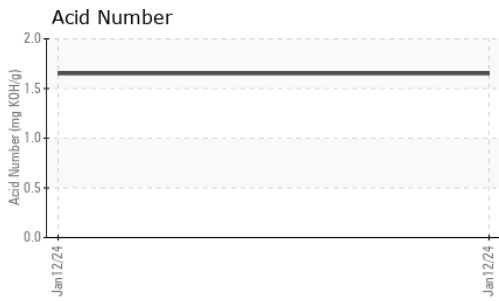
Acid Number

Viscosity @ 40°C

Iron (ppm)

Aluminum (ppm)

Copper (ppm)

Viscosity @ 40°C

Lead (ppm)

Chromium (ppm)

Silicon (ppm)

Acid Number

ANAB ACCREDITED TESTING LABORATORY
Certificate L2367

COMER CONSTRUCTION
2100 SLADE LANE
FOREST HILL, MD
US 21050
Contact: DONALD FOX
dfox@comerconstruction.com
T: (443)269-1379
F: (410)638-0289