



OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Action Newark
Machine Id
CATERPILLAR 5659
Component
Rear Differential
Fluid
{not provided} (--- GAL)



DIAGNOSIS

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 condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0889570	---	---
Sample Date	Client Info		08 Jan 2024	---	---
Machine Age	hrs	Client Info	10359	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			NORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>.2	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	43	---	---
Chromium	ppm	ASTM D5185m >3	<1	---	---
Nickel	ppm	ASTM D5185m >3	0	---	---
Titanium	ppm	ASTM D5185m >2	0	---	---
Silver	ppm	ASTM D5185m >2	0	---	---
Aluminum	ppm	ASTM D5185m >30	2	---	---
Lead	ppm	ASTM D5185m >13	0	---	---
Copper	ppm	ASTM D5185m >103	3	---	---
Tin	ppm	ASTM D5185m >5	0	---	---
Vanadium	ppm	ASTM D5185m	0	---	---
Cadmium	ppm	ASTM D5185m	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	---	---
Barium	ppm	ASTM D5185m	3	---	---
Molybdenum	ppm	ASTM D5185m	1	---	---
Manganese	ppm	ASTM D5185m	0	---	---
Magnesium	ppm	ASTM D5185m	24	---	---
Calcium	ppm	ASTM D5185m	2931	---	---
Phosphorus	ppm	ASTM D5185m	1004	---	---
Zinc	ppm	ASTM D5185m	1268	---	---
Sulfur	ppm	ASTM D5185m	9740	---	---

CONTAMINANTS

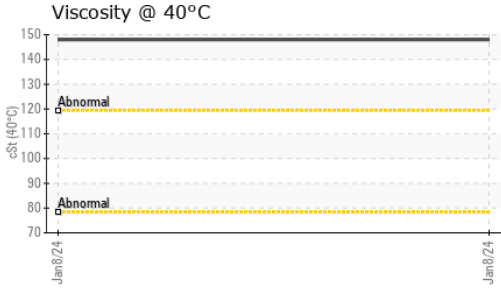
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >100	4	---	---
Sodium	ppm	ASTM D5185m	0	---	---
Potassium	ppm	ASTM D5185m >20	2	---	---

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	---	---
Yellow Metal	scalar	*Visual NONE	NONE	---	---
Precipitate	scalar	*Visual NONE	NONE	---	---
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 >.2	NEG	---	---
Free Water	scalar	*Visual	NEG	---	---



OIL ANALYSIS REPORT



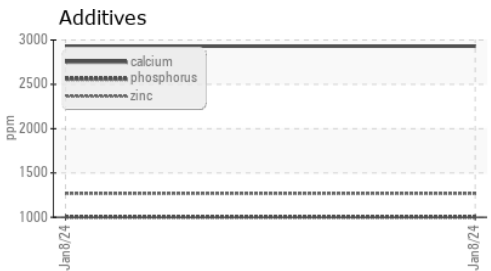
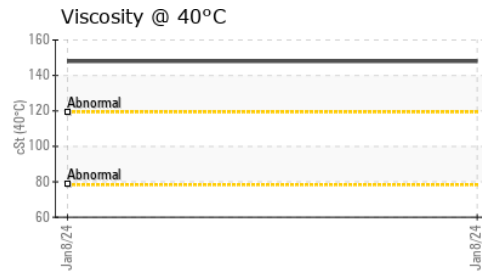
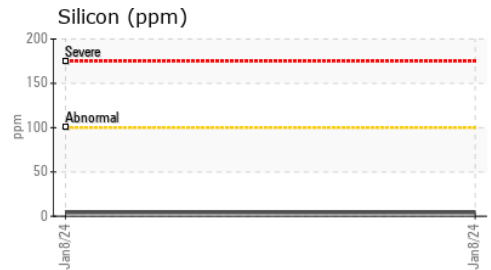
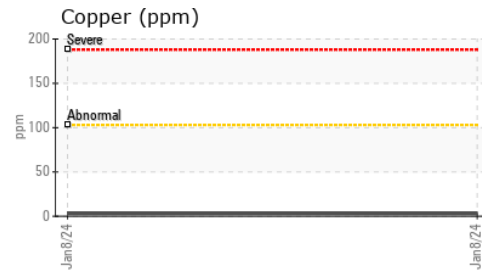
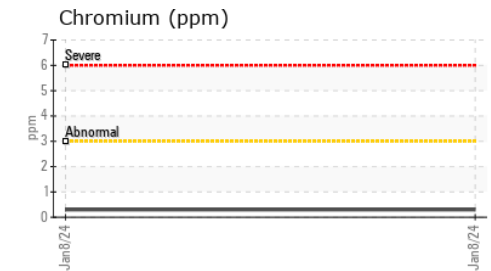
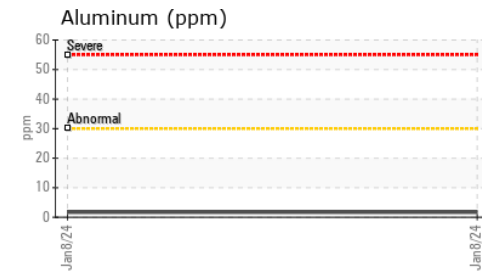
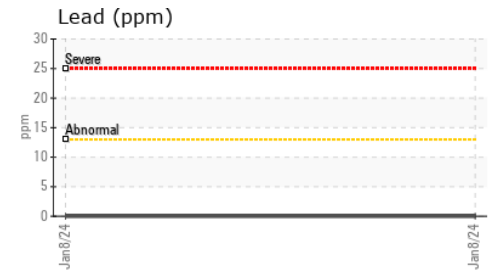
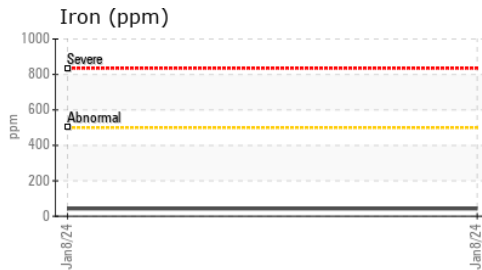
FLUID PROPERTIES

Property	Method	Limit/Base	Current	History1	History2
Visc @ 40°C	cSt	ASTM D445	148	---	---

SAMPLE IMAGES

Property	Method	Limit/Base	Current	History1	History2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0889570 **Received** : 18 Jan 2024
Lab Number : 06064625 **Diagnosed** : 21 Jan 2024
Unique Number : 10836007 **Diagnostician** : Don Baldridge
Test Package : MOB 1

INTERSTATE WASTE-NEWARK
 110 EVERGREEN AVE, BAY 3
 NEWARK, NJ
 US 07114
 Contact: Robert Witynski
 RWitynski@interstatewaste.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:
F: