



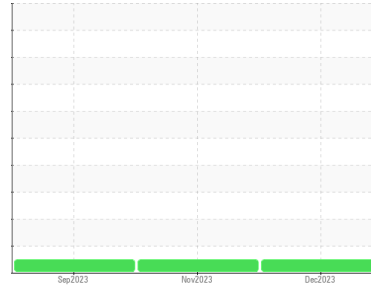
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Bridgewater
 Machine Id
CATERPILLAR 5642
 Component
Front Differential
 Fluid
TDTO FLUID SAE 30 (--- QTS)



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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0875300	WC0864882	WC0850648
Sample Date	Client Info		23 Dec 2023	09 Nov 2023	14 Sep 2023
Machine Age	hrs	Client Info	2007	1578	1072
Oil Age	hrs	Client Info	500	1578	0
Oil Changed		Client Info	N/A	N/A	Not Changd
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	80	88	78
Chromium	ppm	ASTM D5185m >3	<1	<1	<1
Nickel	ppm	ASTM D5185m >3	0	0	<1
Titanium	ppm	ASTM D5185m >2	0	0	<1
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >30	2	2	1
Lead	ppm	ASTM D5185m >13	<1	0	0
Copper	ppm	ASTM D5185m >103	34	33	33
Tin	ppm	ASTM D5185m >5	<1	<1	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 37	0	0	<1
Barium	ppm	ASTM D5185m 7	0	0	2
Molybdenum	ppm	ASTM D5185m 5	0	0	<1
Manganese	ppm	ASTM D5185m	2	2	1
Magnesium	ppm	ASTM D5185m 40	11	12	7
Calcium	ppm	ASTM D5185m 2650	2769	3001	2925
Phosphorus	ppm	ASTM D5185m 1050	994	1031	1052
Zinc	ppm	ASTM D5185m 1075	1192	1266	1214
Sulfur	ppm	ASTM D5185m 5750	6015	6362	7446

CONTAMINANTS

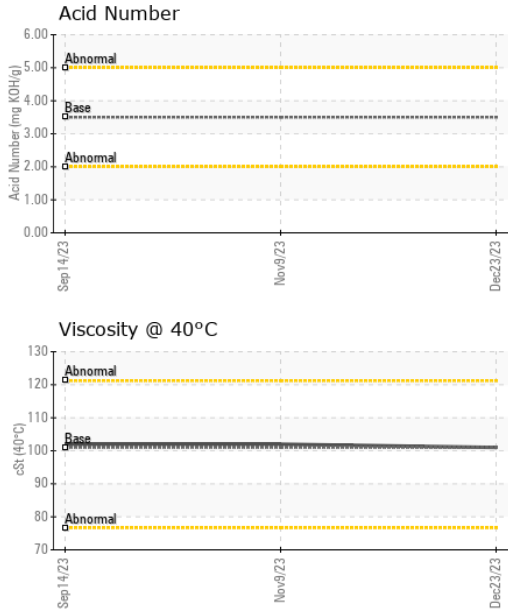
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >100	4	6	5
Sodium	ppm	ASTM D5185m	4	5	0
Potassium	ppm	ASTM D5185m >20	0	0	3

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 3.50	2.04	---	---



OIL ANALYSIS REPORT

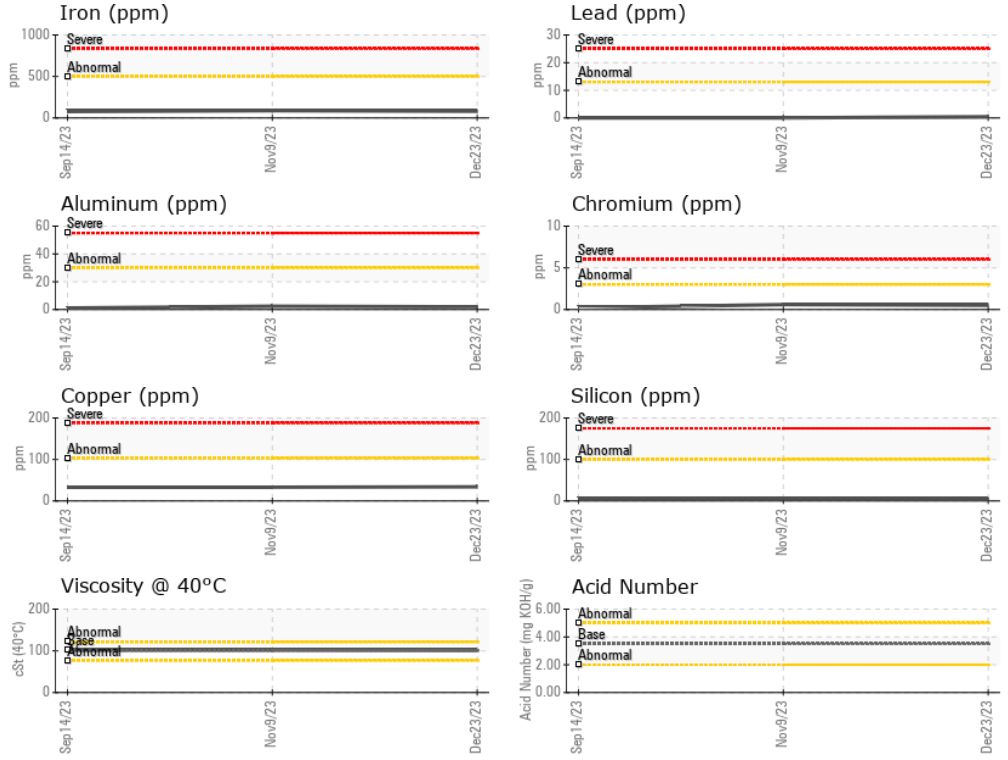


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 101	101	102	102

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0875300 **Recieved** : 08 Jan 2024
Lab Number : 06054067 **Diagnosed** : 09 Jan 2024
Unique Number : 10820016 **Diagnostician** : Wes Davis
Test Package : MOB 2

INTERSTATE WASTE-BRIDGewater
 15 POLHEMUS LANE
 BRIDGEWATER, NJ
 US 08807
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 PChardon@interstatewaste.com
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 F:

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)