



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
CATERPILLAR 329E 329E-743 (S/N PLW01676)
 Component
Right Final Drive
 Fluid
TDTO FLUID SAE 50 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TLY0002228	TLY0001999	TLY0001303
Sample Date		Client Info		16 Apr 2024	21 Nov 2023	15 Mar 2023
Machine Age	hrs	Client Info		6384	5965	0
Oil Age	hrs	Client Info		5965	1965	1425
Filter Age	hrs	Client Info		5965	1965	1425
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>800	▲ 909	725	524
Chromium	ppm	ASTM D5185m	>10	5	4	4
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m	>15	4	3	2
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>75	53	47	33
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>75	12	13	12
Tin	ppm	ASTM D5185m	>8	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

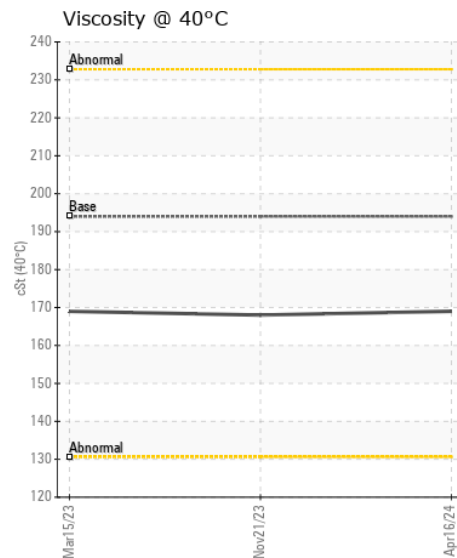
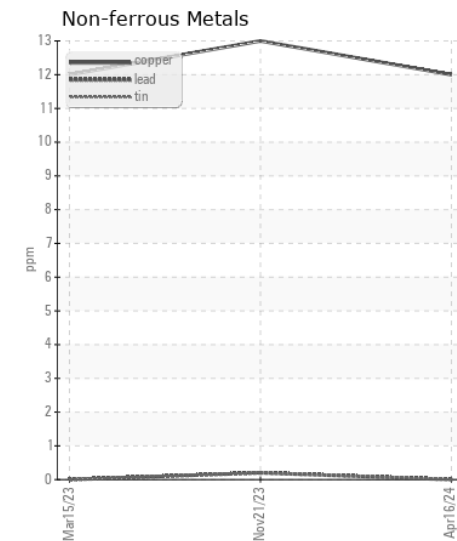
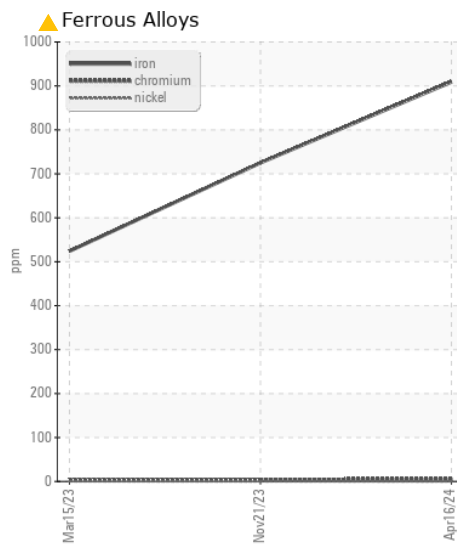
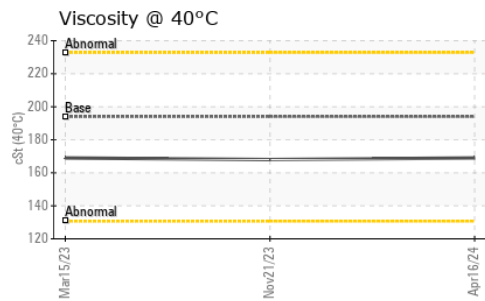
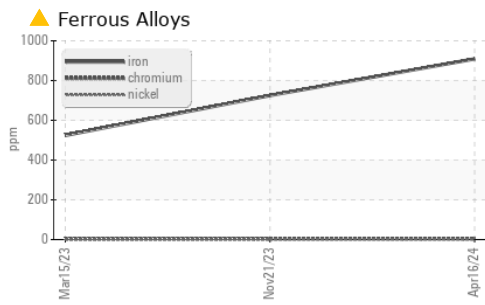
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>400	191	166	114
Potassium	ppm	ASTM D5185m	>20	16	13	10
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		4	5	4
Boron	ppm	ASTM D5185m	37	<1	<1	<1
Barium	ppm	ASTM D5185m	7	0	4	3
Molybdenum	ppm	ASTM D5185m	5	<1	<1	1
Manganese	ppm	ASTM D5185m		9	7	5
Magnesium	ppm	ASTM D5185m	40	7	16	16
Calcium	ppm	ASTM D5185m	2650	3147	3032	3094
Phosphorus	ppm	ASTM D5185m	1050	1112	1110	1043
Zinc	ppm	ASTM D5185m	1075	1277	1230	1270
Sulfur	ppm	ASTM D5185m	5750	14825	12233	14901
Visc @ 40°C	cSt	ASTM D445	194	169	168	169



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TLY0002228 **Received** : 19 Apr 2024
Lab Number : 06154976 **Tested** : 22 Apr 2024
Unique Number : 10990399 **Diagnosed** : 24 Apr 2024 - Jonathan Hester
Test Package : CONST

GAINES & COMPANY
 112 WESTMINSTER RD
 REISTERSTOWN, MD
 US 21136

Contact: LANCE TANCRAITOR
 ltancraitor@gainesandco.com
 T: (410)833-9833

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)

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