



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
CATERPILLAR 329E 329E-743 (S/N PLW01676)
 Component
Left 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		TLY0002233	TLY0001998	TLY0001342
Sample Date		Client Info		16 Apr 2024	21 Nov 2023	15 Mar 2023
Machine Age	hrs	Client Info		5965	5965	0
Oil Age	hrs	Client Info		5965	1965	1425
Filter Age	hrs	Client Info		6384	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	ABNORMAL

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>800	▲ 1143	771	624
Chromium	ppm	ASTM D5185m	>10	6	4	5
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m	>15	6	3	3
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>75	60	42	● 34
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>75	5	6	5
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

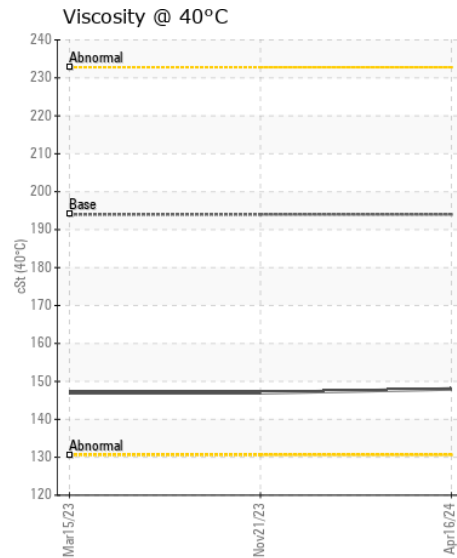
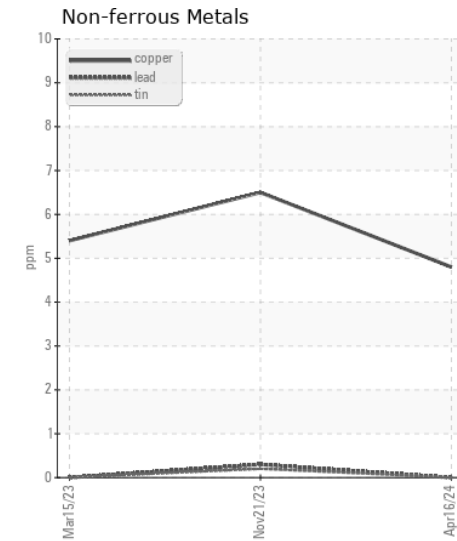
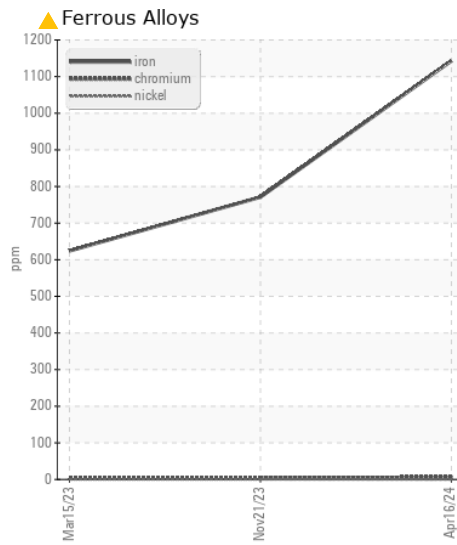
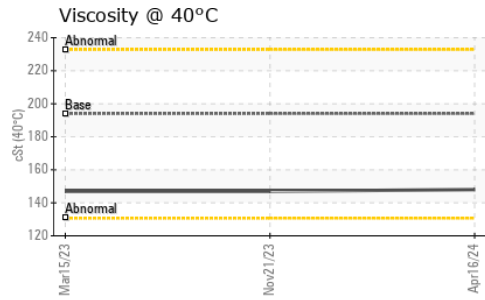
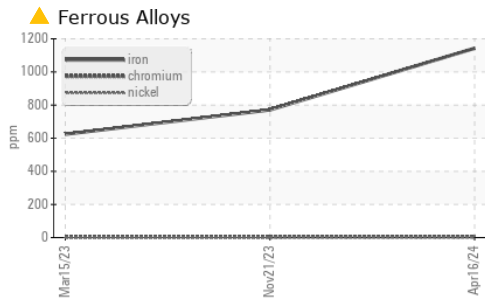
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>400	314	204	▲ 155
Potassium	ppm	ASTM D5185m	>20	19	13	11
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODER
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	0.2%

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		4	4	4
Boron	ppm	ASTM D5185m	37	6	<1	2
Barium	ppm	ASTM D5185m	7	0	4	2
Molybdenum	ppm	ASTM D5185m	5	<1	<1	<1
Manganese	ppm	ASTM D5185m		11	7	6
Magnesium	ppm	ASTM D5185m	40	7	15	14
Calcium	ppm	ASTM D5185m	2650	2818	2775	2595
Phosphorus	ppm	ASTM D5185m	1050	1071	1079	930
Zinc	ppm	ASTM D5185m	1075	1215	1188	1113
Sulfur	ppm	ASTM D5185m	5750	14246	11397	13461
Visc @ 40°C	cSt	ASTM D445	194	148	147	147



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TLY0002233
Lab Number : 06154975
Unique Number : 10990398
Test Package : CONST

Received : 19 Apr 2024
Tested : 22 Apr 2024
Diagnosed : 24 Apr 2024 - Jonathan Hester

GAINES & COMPANY
 112 WESTMINISTER 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)

F: