



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
CATERPILLAR 420E 4006 (S/N DAN00263)
Component
Rear Differential
Fluid
TDTO FLUID SAE 10W (--- QTS)

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		CL0005558	CL0004440	CL0003373
Sample Date		Client Info		11 Jun 2024	29 Jun 2023	09 Jul 2022
Machine Age	hrs	Client Info		6225	5810	5325
Oil Age	hrs	Client Info		1865	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

The lead level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	53	45	39
Chromium	ppm	ASTM D5185m	>3	<1	<1	<1
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>30	3	<1	2
Lead	ppm	ASTM D5185m	>13	▲ 42	34	35
Copper	ppm	ASTM D5185m	>103	15	13	12
Tin	ppm	ASTM D5185m	>5	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
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.

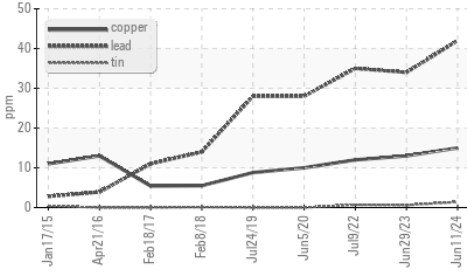
Silicon	ppm	ASTM D5185m	>100	9	7	7
Potassium	ppm	ASTM D5185m	>20	2	0	2
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG

FLUID CONDITION

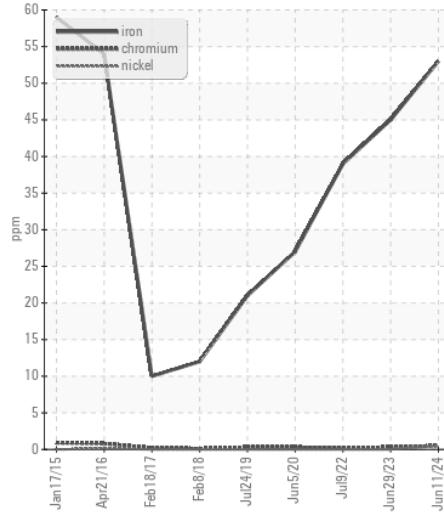
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		4	6	5
Boron	ppm	ASTM D5185m	37	7	7	8
Barium	ppm	ASTM D5185m	7	1	0	0
Molybdenum	ppm	ASTM D5185m	5	5	4	5
Manganese	ppm	ASTM D5185m		2	2	2
Magnesium	ppm	ASTM D5185m	40	8	11	8
Calcium	ppm	ASTM D5185m	2650	2551	2230	2575
Phosphorus	ppm	ASTM D5185m	1050	1107	927	1038
Zinc	ppm	ASTM D5185m	1075	1185	1073	1193
Sulfur	ppm	ASTM D5185m	5750	4522	3977	4414
Visc @ 40°C	cSt	ASTM D445	40	41.9	42.5	42.3

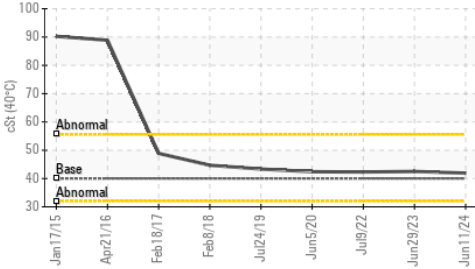
▲ Non-ferrous Metals



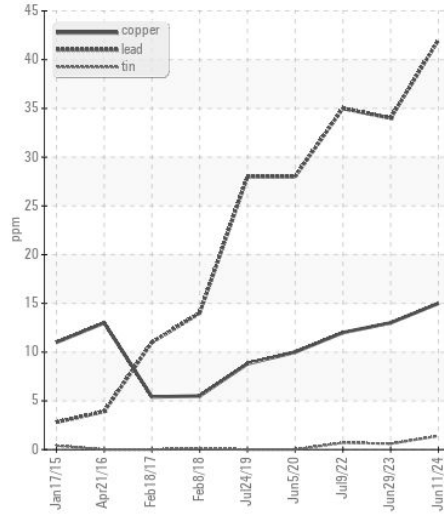
Ferrous Alloys



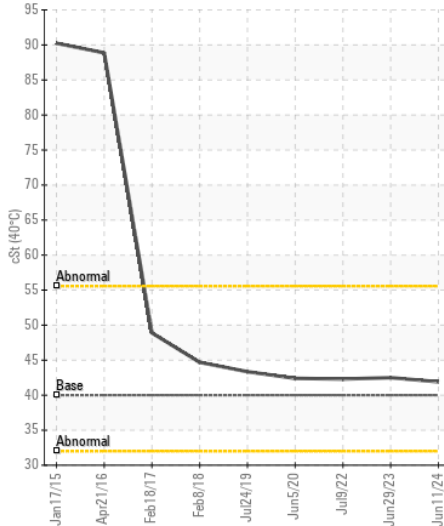
Viscosity @ 40°C



▲ Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : CL0005558
Lab Number : 06218617
Unique Number : 11096814
Test Package : CONST
Received : 24 Jun 2024
Tested : 25 Jun 2024
Diagnosed : 26 Jun 2024 - Sean Felton

PURCELL CONSTRUCTION
 3100 HIGH RIDGE RD
 CHARLOTTE, NC
 US 28270
 Contact: BEN MILKE
 ben@purcellconst.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)

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