



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION



Machine Id
CATERPILLAR 950K C236293 (S/N R4A02277)
 Component
Front Differential
 Fluid
CAT TDTO SAE 50 (--- QTS)

RECOMMENDATION

We advise that you check for the source of water entry. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

There is a high concentration of water present in the oil.

FLUID CONDITION

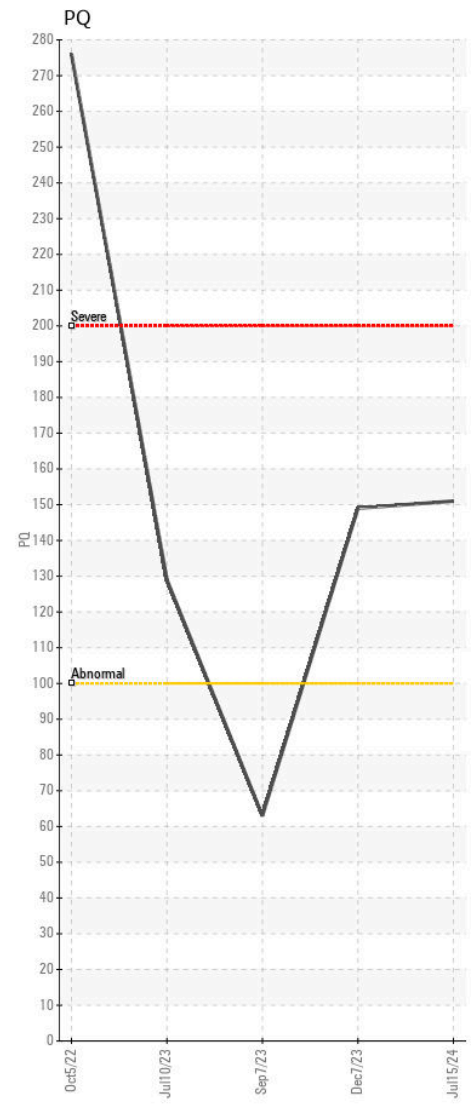
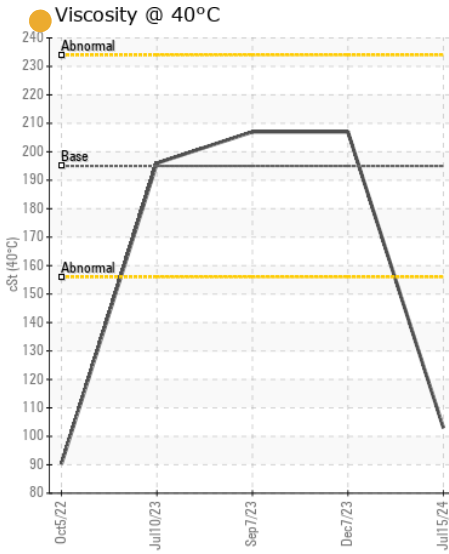
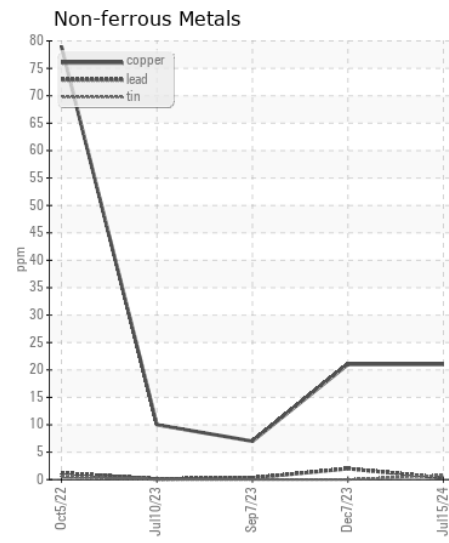
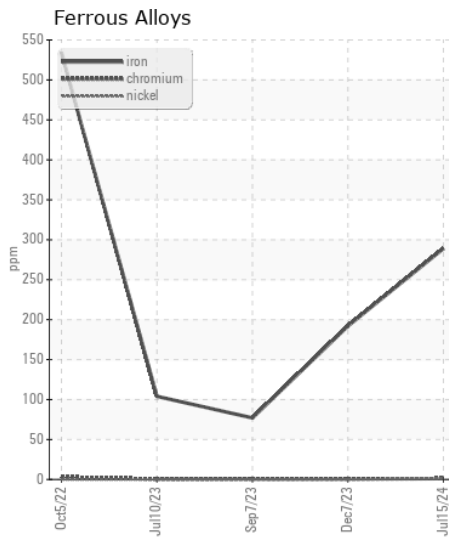
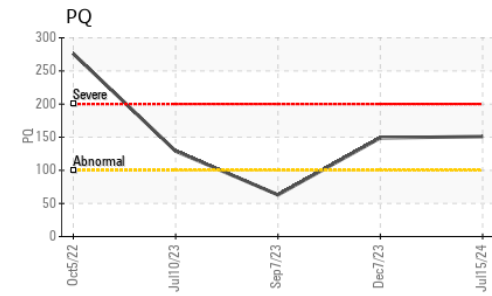
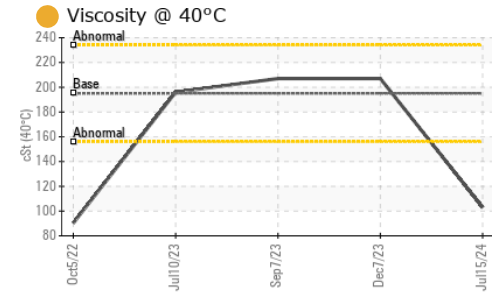
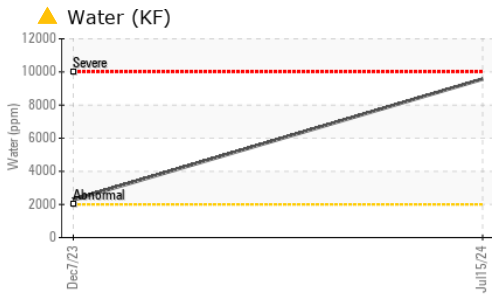
The oil viscosity is lower than normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0225427	JR0196000	JR0184034
Sample Date		Client Info		15 Jul 2024	07 Dec 2023	07 Sep 2023
Machine Age	hrs	Client Info		21248	21248	20744
Oil Age	hrs	Client Info		20300	20804	444
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		None	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL

Test	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		151	149	63
Iron	ppm	ASTM D5185m	>500	289	192	77
Chromium	ppm	ASTM D5185m	>3	1	<1	<1
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>2	3	2	1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>30	24	24	6
Lead	ppm	ASTM D5185m	>13	<1	2	<1
Copper	ppm	ASTM D5185m	>103	21	21	7
Tin	ppm	ASTM D5185m	>5	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>100	78	85	33
Potassium	ppm	ASTM D5185m	>20	5	2	2
Water	%	ASTM D6304	>.2	0.957	0.227	---
ppm Water	ppm	ASTM D6304	>2000	9570	2270	---
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	0.2%	0.2%	NEG

Sodium	ppm	ASTM D5185m		1	6	3
Boron	ppm	ASTM D5185m		7	<1	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		8	1	<1
Manganese	ppm	ASTM D5185m		2	2	1
Magnesium	ppm	ASTM D5185m		52	24	12
Calcium	ppm	ASTM D5185m	2980	3170	3293	3252
Phosphorus	ppm	ASTM D5185m	1100	1025	1070	996
Zinc	ppm	ASTM D5185m	1270	1227	1238	1252
Sulfur	ppm	ASTM D5185m		5965	7923	9172
Visc @ 40°C	cSt	ASTM D445	195	103	207	207



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0225427 **Received** : 18 Jul 2024
Lab Number : 06240601 **Tested** : 19 Jul 2024
Unique Number : 11129435 **Diagnosed** : 20 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF, PQ)

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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)