



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**CATERPILLAR 950K C236293 (S/N R4A02277)**  
 Component  
**Hydraulic System**  
 Fluid  
**CAT HYDO (--- QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0225425</b>	JR0195998	JR0184032
Sample Date		Client Info		<b>15 Jul 2024</b>	07 Dec 2023	07 Sep 2023
Machine Age	hrs	Client Info		<b>21248</b>	21248	20744
Oil Age	hrs	Client Info		<b>21248</b>	21248	20744
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Filter Changed		Client Info		<b>Not Chngd</b>	Changed	Not Chngd
Sample Status				<b>NORMAL</b>	ATTENTION	ABNORMAL

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	<b>1</b>	5	10
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	2
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>4</b>	<1	0
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>75	<b>1</b>	2	<1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

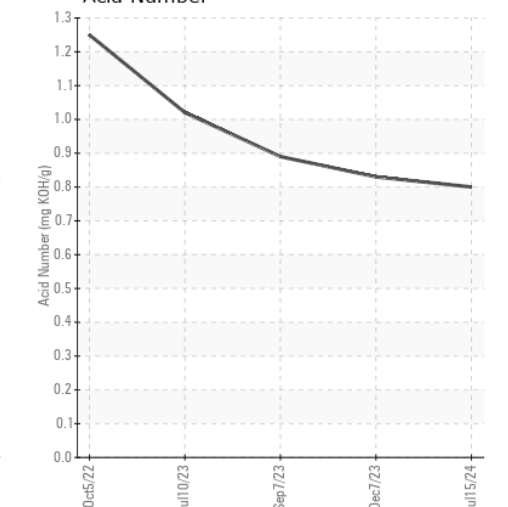
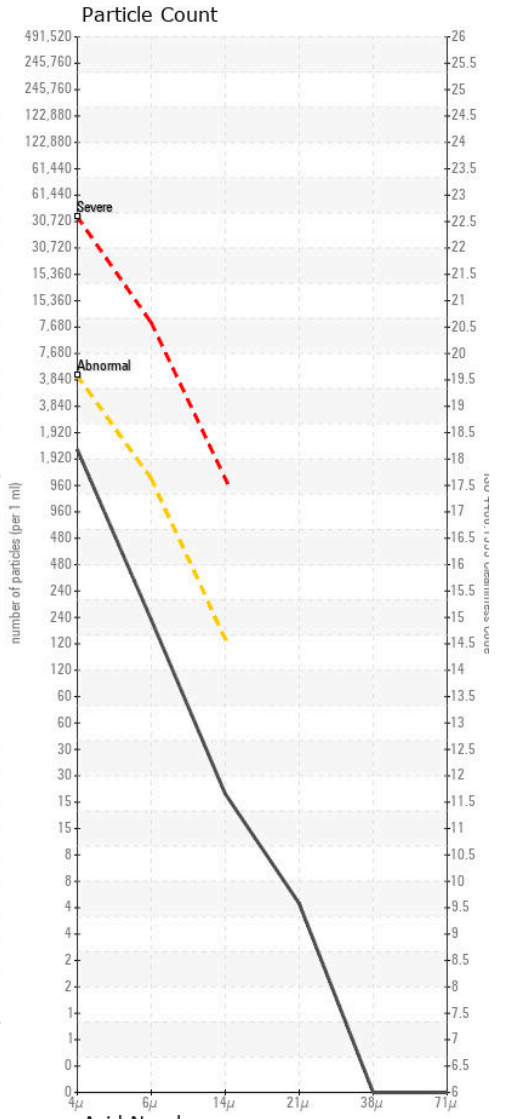
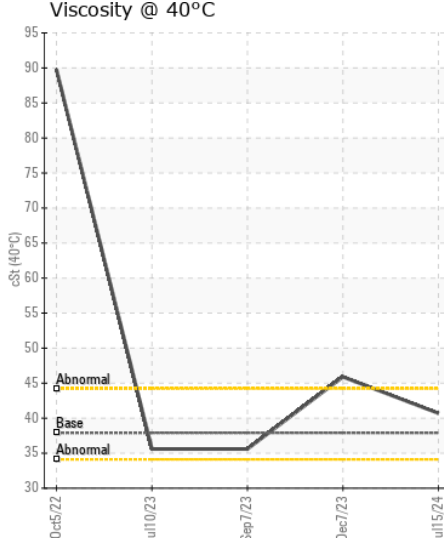
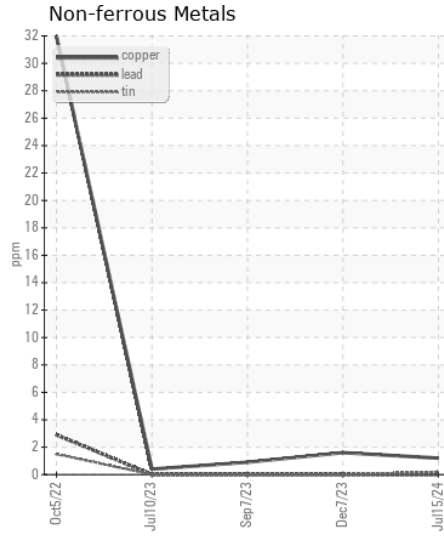
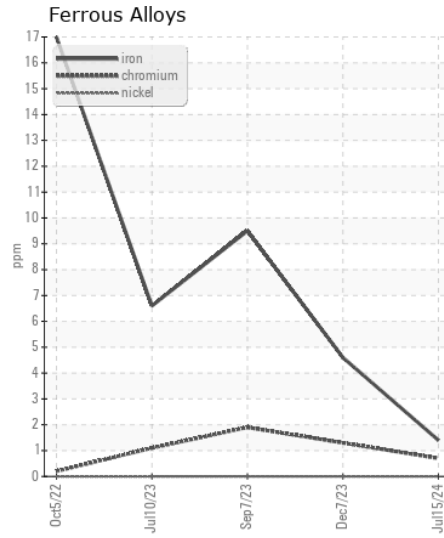
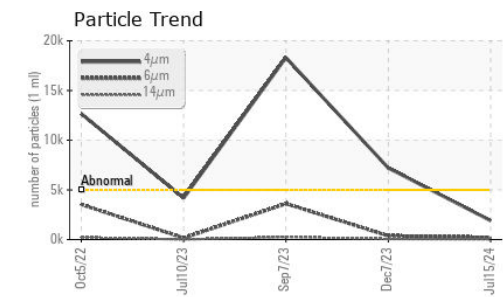
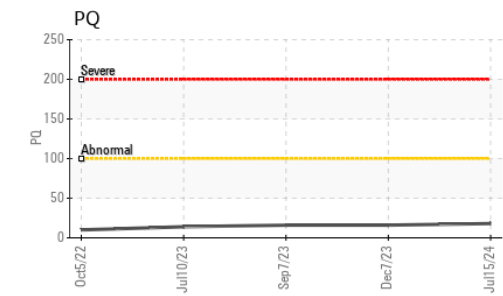
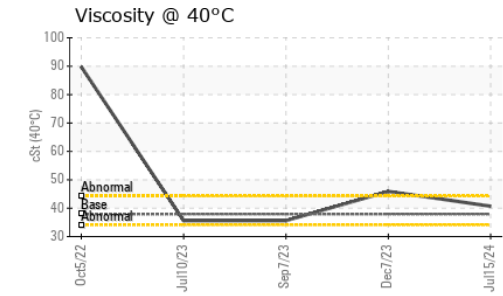
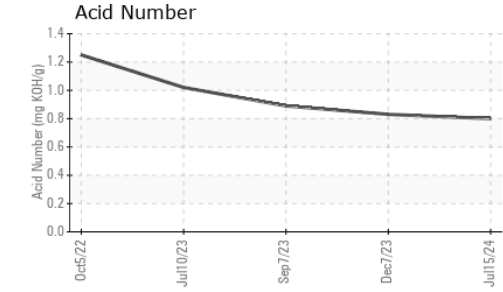
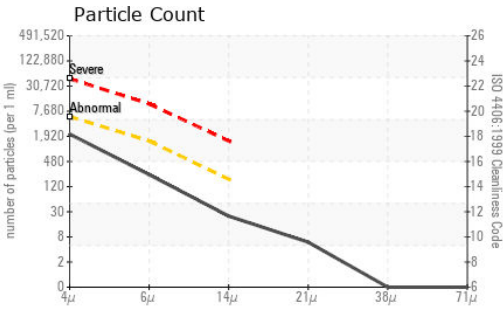
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>10</b>	9	6
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>1903</b>	7205	18309
Particles >6µm		ASTM D7647	>1300	<b>205</b>	377	3610
Particles >14µm		ASTM D7647	>160	<b>21</b>	49	249
Particles >21µm		ASTM D7647	>40	<b>5</b>	15	69
Particles >38µm		ASTM D7647	>10	<b>0</b>	2	3
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>18/15/12</b>	20/16/13	21/19/15
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>0</b>	5	2
Boron	ppm	ASTM D5185m		<b>32</b>	60	1
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>6</b>	2	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>36</b>	23	5
Calcium	ppm	ASTM D5185m		<b>1090</b>	2255	1241
Phosphorus	ppm	ASTM D5185m	1100	<b>790</b>	964	753
Zinc	ppm	ASTM D5185m	1210	<b>1063</b>	1178	979
Sulfur	ppm	ASTM D5185m		<b>2935</b>	5177	2801
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.80</b>	0.83	0.89
Visc @ 40°C	cSt	ASTM D445	37.9	<b>40.7</b>	45.9	35.6



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0225425 **Received** : 18 Jul 2024  
**Lab Number** : 06240190 **Tested** : 19 Jul 2024  
**Unique Number** : 11129024 **Diagnosed** : 20 Jul 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )  
 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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