

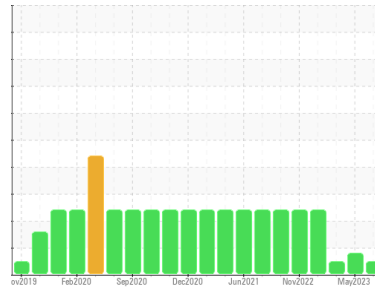


# OIL ANALYSIS REPORT



Machine Id  
**CATERPILLAR D6 8175 (S/N GZ900317)**  
 Component  
**Hydraulic System**  
 Fluid  
 {not provided} (--- GAL)

Sample Rating Trend



**NORMAL**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0913247</b>	WC0816175	WC0775867
Sample Date	Client Info			<b>11 Apr 2024</b>	22 May 2023	26 Jan 2023
Machine Age	hrs	Client Info		<b>10764</b>	4178	9571
Oil Age	hrs	Client Info		<b>10764</b>	4178	9571
Oil Changed	Client Info			<b>Not Changed</b>	Not Changed	Not Changed
Sample Status				<b>NORMAL</b>	ATTENTION	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<b>4</b>	13	6
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>3</b>	0	5
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	2	<1
Copper	ppm	ASTM D5185m	>75	<b>4</b>	7	4
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>25</b>	75	116
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>2</b>	6	5
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>15</b>	47	39
Calcium	ppm	ASTM D5185m		<b>2290</b>	2860	2886
Phosphorus	ppm	ASTM D5185m		<b>776</b>	854	1034
Zinc	ppm	ASTM D5185m		<b>880</b>	1097	1291
Sulfur	ppm	ASTM D5185m		<b>4799</b>	3197	2980

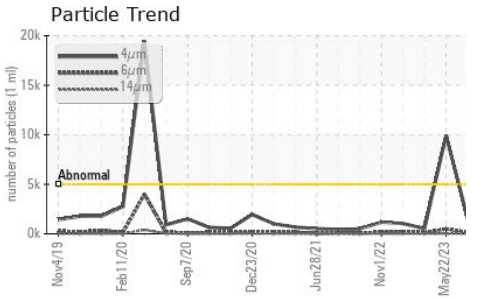
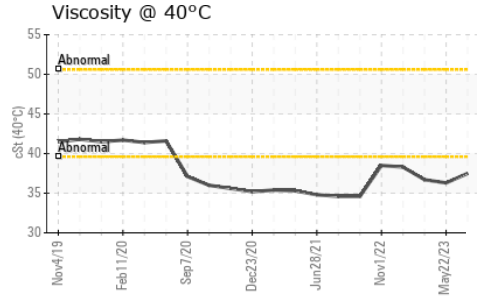
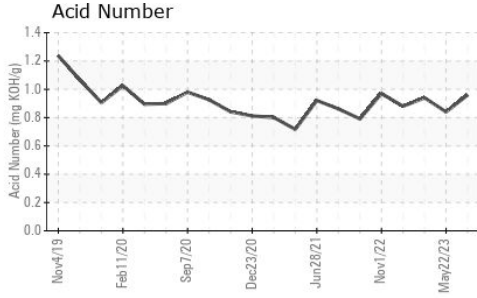
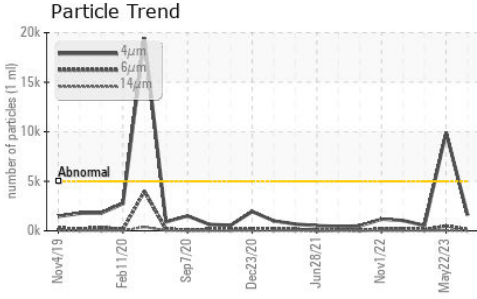
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>10</b>	12	18
Sodium	ppm	ASTM D5185m		<b>5</b>	6	0
Potassium	ppm	ASTM D5185m	>20	<b>12</b>	3	2

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>1596</b>	9922	523
Particles >6µm		ASTM D7647	>1300	<b>150</b>	485	119
Particles >14µm		ASTM D7647	>160	<b>16</b>	30	7
Particles >21µm		ASTM D7647	>40	<b>6</b>	8	2
Particles >38µm		ASTM D7647	>10	<b>1</b>	1	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>18/14/11</b>	20/16/12	16/14/10

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.96</b>	0.84	0.94



# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

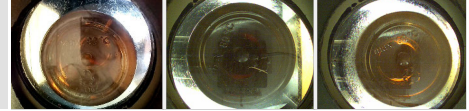
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	37.5	36.3	36.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
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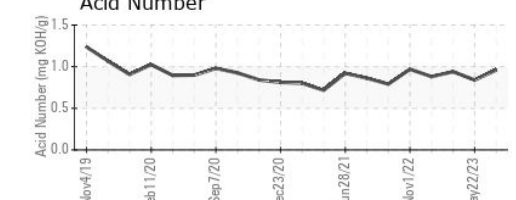
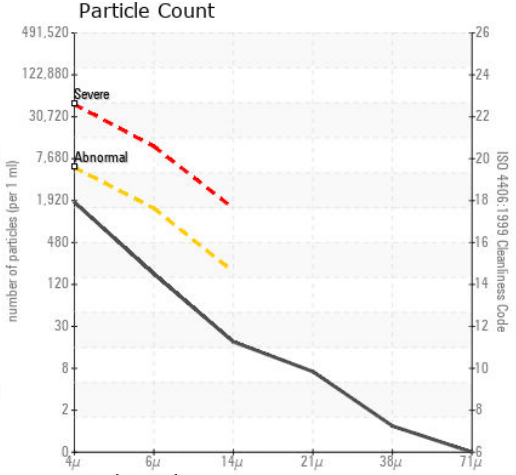
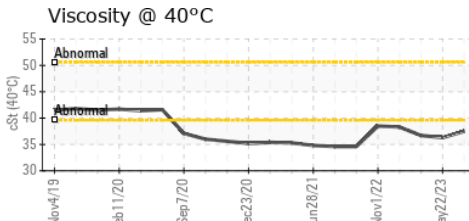
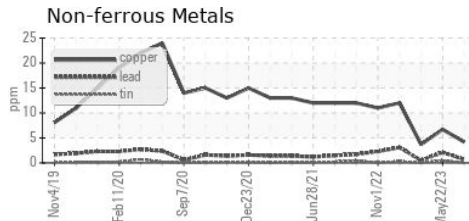
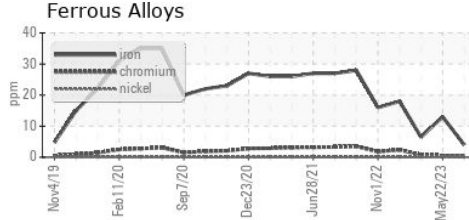
Color



Bottom



## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : WC0913247  
 Lab Number : 06151906  
 Unique Number : 10981984  
 Test Package : CONST

Received : 17 Apr 2024  
 Tested : 18 Apr 2024  
 Diagnosed : 18 Apr 2024 - Wes Davis

TRADER CONSTRUCTION CO.  
 PO DRAWER 1578  
 NEW BERN, NC  
 US 28563  
 Contact: MIKE WYATT  
 mw Wyatt@traderconstruction.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)

T: (252)633-1399

F: (252)638-4871