

OIL ANALYSIS REPORT

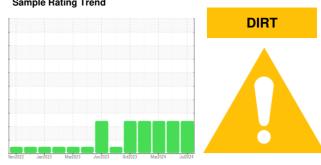
Sample Rating Trend

limit/base



Machine Id CATERPILLAR D6 10032 (S/N KEW01099) Hydraulic System TDH FLUID SAE 70W80 (--- GAL)

SAMPLE INFORMATION method



history1

current

history2

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The amount and size of particulates present in the system are acceptable.

Fluid Condition

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

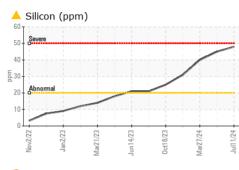
		methou	IIIIII/Dase	Current	Thistory I	TIISTOL A
Sample Number		Client Info		WC0898991	WC0913283	WC0913227
Sample Date		Client Info		11 Jul 2024	21 May 2024	27 Mar 2024
Machine Age	hrs	Client Info		7295	6538	5940
Oil Age	hrs	Client Info		7295	6538	5940
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	18	15	15
Chromium	ppm	ASTM D5185m	>10	1	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>10	<mark> </mark> 22	20	1 8
Lead	ppm	ASTM D5185m	>10	2	<1	1
Copper	ppm	ASTM D5185m	>75	7	4	5
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	10	116	132	125
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	10	5	4	4
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	100	35	36	37
Calcium	ppm	ASTM D5185m	3500	2981	2990	3266
Phosphorus	ppm	ASTM D5185m	1150	1127	1095	1215
Zinc	ppm	ASTM D5185m	1150	1330	1299	1420
Sulfur	ppm	ASTM D5185m	5000	3018	3397	3579
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<u> </u>	4 5	4 0
Sodium	ppm	ASTM D5185m		1	2	2
Potassium	ppm	ASTM D5185m	>20	5	2	5
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	692	1453	973
Particles >6µm		ASTM D7647	>1300	119	211	235
Particles >14µm		ASTM D7647	>160	11	18	18
Particles >21µm		ASTM D7647	>40	3	6	6
Particles >38µm		ASTM D7647	>10	0	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/14/11	18/15/11	17/15/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.25	1.00	1.09	0.97
					1.00	0.07

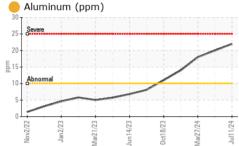
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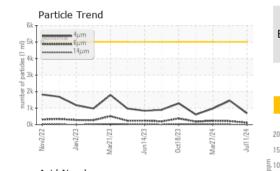
Contact/Location: MIKE WYATT - TRANEW

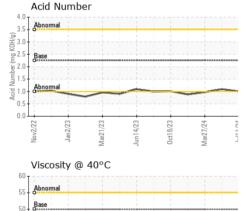


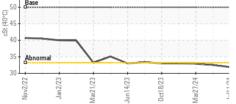
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	50	31.9	32.5	32.9
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					a.	

Bottom

20

15

0

10

CC/Crvul

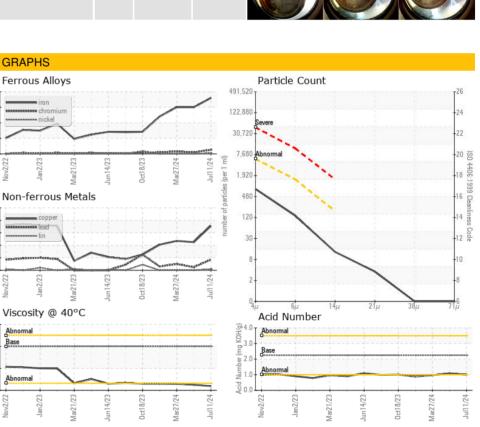
CC/Crval

60

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30

CC/Cnul





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0898991 Sample No. Received : 15 Jul 2024 Lab Number : 06235836 Tested : 16 Jul 2024 Unique Number : 11124670 Diagnosed : 16 Jul 2024 - Don Baldridge Test Package : CONST Certificate 12367 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.

PO DRAWER 1578 NEW BERN, NC US 28563 Contact: MIKE WYATT mwyatt@traderconstruction.com T: (252)633-1399 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (252)638-4871

TRADER CONSTRUCTION CO.

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Contact/Location: MIKE WYATT - TRANEW

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