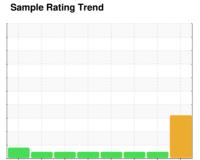


OIL ANALYSIS REPORT







Machine Id **CATERPILLAR D6 10**

Hydraulic System {not provided} (--- GAL

DIAGNOSIS

Recommendation

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

The iron level is abnormal. All other 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 acceptable for the time in service.

0030 (S/N JJ601009)							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0899261	WC0888054	WC0879400	
Sample Date		Client Info		04 Jun 2024	06 Feb 2024	20 Nov 2023	
Machine Age	hrs	Client Info		3880	3483	2920	
Oil Age	hrs	Client Info		3880	3483	2920	
Oil Changed		Client Info		Changed	Not Changd	Not Changd	
Sample Status				ABNORMAL	NORMAL	NORMAL	
CONTAMINATION	١	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	23	19	16	
Chromium	ppm	ASTM D5185m	>10	2	1	<1	
Nickel	ppm	ASTM D5185m	>10	<1	0	0	
Titanium	ppm	ASTM D5185m		<1	<1	<1	
Silver	ppm	ASTM D5185m		0	0	0	

Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	23	19	16
Chromium	ppm	ASTM D5185m	>10	2	1	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<u> </u>	15	13
Lead	ppm	ASTM D5185m	>10	3	2	2
Copper	ppm	ASTM D5185m	>75	19	17	16
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		7	7	6
Barium	ppm	ASTM D5185m		0	0	0

Boron	ppm	ASTM D5185m	7	7	6
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	<1	<1	0
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	11	8	8
Calcium	ppm	ASTM D5185m	435	406	369
Phosphorus	ppm	ASTM D5185m	723	703	684
Zinc	ppm	ASTM D5185m	952	879	860
Sulfur	ppm	ASTM D5185m	1979	1734	1723

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	▲ 33	27	24
Sodium	ppm	ASTM D5185m		1	3	3
Potassium	ppm	ASTM D5185m	>20	3	0	<1
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Dartialas Aum		ACTM D7647	. F000	E01	001	606

Particles >4µm	ASTM D7647	>5000	501	821	686
Particles >6μm	ASTM D7647	>1300	79	87	160
Particles >14µm	ASTM D7647	>160	8	10	16
Particles >21µm	ASTM D7647	>40	3	3	4
Particles >38µm	ASTM D7647	>10	0	0	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	16/13/10	17/14/10	17/14/11
FLUID DEGRADATION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045

0.80 Contact/Location: MIKE WYATT - TRANEW

Report Id: TRANEW [WUSCAR] 06202661 (Generated: 06/10/2024 12:45:12) Rev: 1



OIL ANALYSIS REPORT







Laboratory Sample No.

: WC0899261 Lab Number : 06202661 Unique Number : 11070122 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Jun 2024 **Tested** : 10 Jun 2024

Diagnosed : 10 Jun 2024 - Don Baldridge

Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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

Contact: MIKE WYATT

mwyatt@traderconstruction.com

PO DRAWER 1578

NEW BERN, NC

US 28563