

# **OIL ANALYSIS REPORT**



Machine Id CATERPILLAR D6 10032 (S/N KEW01099) Hydraulic System

Fluid {not provided} (--- GAL)

### 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

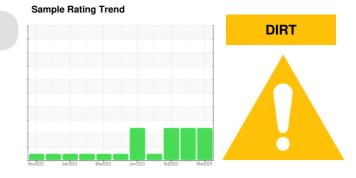
All component wear rates are normal.

#### 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.



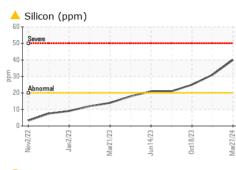
SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0913227	WC0879275	WC0862884
Sample Date		Client Info		27 Mar 2024	19 Dec 2023	18 Oct 2023
Machine Age	hrs	Client Info		5940	5213	4605
Oil Age	hrs	Client Info		5940	5213	4605
Oil Changed	1110	Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
-	N	method	limit/base		-	-
	N				history1	history2
Water		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	15	12	7
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	<mark> </mark> 18	<b>1</b> 4	<b>1</b> 1
Lead	ppm	ASTM D5185m	>10	1	<1	2
Copper	ppm	ASTM D5185m	>75	5	4	2
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		125	118	115
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		4	4	3
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		37	35	38
Calcium	ppm	ASTM D5185m		3266	2950	3049
Phosphorus	ppm	ASTM D5185m		1215	1047	1117
Zinc	ppm	ASTM D5185m		1420	1299	1416
Sulfur	ppm	ASTM D5185m		3579	2998	3163
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>4</b> 0	<b>3</b> 1	<b>2</b> 5
Sodium	ppm	ASTM D5185m		2	3	3
Potassium	ppm	ASTM D5185m	>20	5	0	3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	973	612	1288
Particles >6µm		ASTM D7647	>1300	235	187	371
Particles >14μm		ASTM D7647	>160	18	21	35
Particles >21µm		ASTM D7647	>40	6	6	9
Particles >38μm		ASTM D7647	>10	1	0	0
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/11	16/15/12	17/16/12
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.97	0.88	1.01

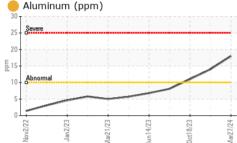
Report Id: TRANEW [WUSCAR] 06137341 (Generated: 04/06/2024 00:10:39) Rev: 1

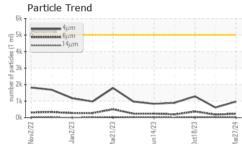
Contact/Location: MIKE WYATT - TRANEW Page 1 of 2

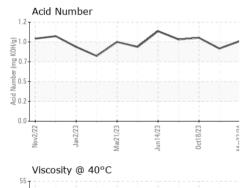


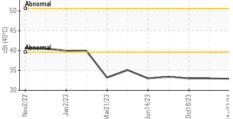
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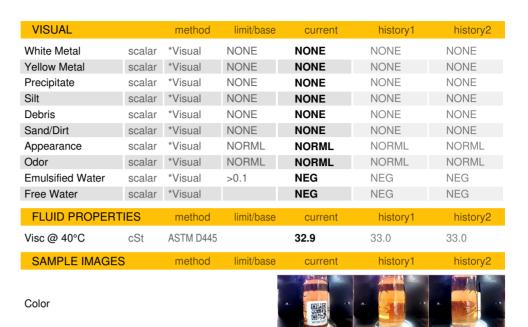




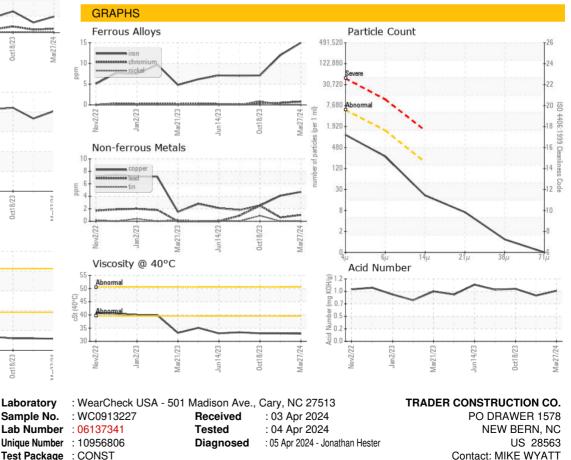








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Test Package : CONST

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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Certificate 12367

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