

OIL ANALYSIS REPORT

Machine Id **CATERPILLAR D6 LGP 10039 (S/N KEW01125)** Component 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

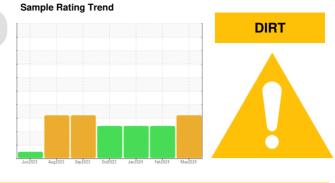
All component wear rates are normal for time on oil.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

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



SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0913082	WC0879302	WC0888020
Sample Date		Client Info		07 May 2024	21 Feb 2024	16 Jan 2024
Machine Age	hrs	Client Info		3845	3376	2812
Oil Age	hrs	Client Info		3845	3376	2812
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	36	31	30
Chromium	ppm	ASTM D5185m		3	2	2
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		2	<1	<1
Silver	ppm	ASTM D5185m		- <1	0	0
Aluminum	ppm	ASTM D5185m	>10	28	24	20
Lead	ppm		>10	3	2	2
Copper	ppm	ASTM D5185m	>75	19	18	17
Tin	ppm		>10	1	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		10	5	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		1	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		12	5	10
Calcium	ppm	ASTM D5185m		527	339	297
Phosphorus	ppm	ASTM D5185m		848	731	732
Zinc	ppm	ASTM D5185m		1036	890	944
Sulfur	ppm	ASTM D5185m		2317	1724	1836
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<u> </u>	4 4	4 39
Sodium	ppm	ASTM D5185m		2	4	<1
Potassium	ppm	ASTM D5185m	>20	6	2	4
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	6087	3377	1714
Particles >6µm		ASTM D7647	>1300	170	121	159
Particles >14µm		ASTM D7647	>160	7	10	11
Particles >21µm		ASTM D7647	>40	3	2	3
Particles >38µm		ASTM D7647	>10	0	1	0
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	e 20/15/10	19/14/10	18/14/11
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.84	0.85	0.88
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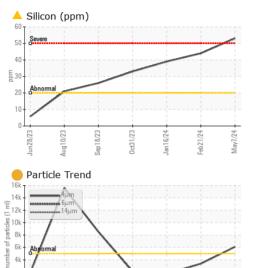
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method

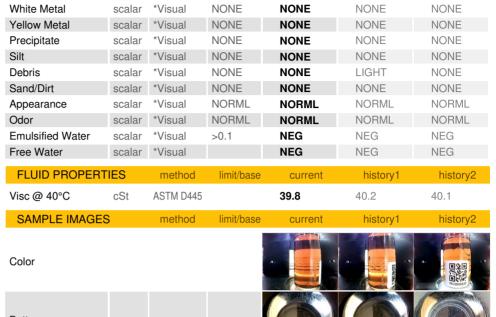
VISUAL



Sep18/23

Aluminum (ppm)

c+31/7



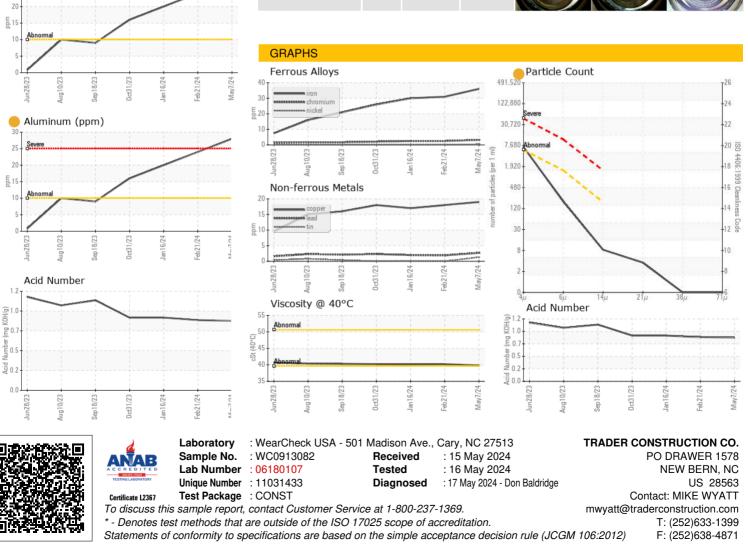
limit/base

current

history1

history2

Bottom



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