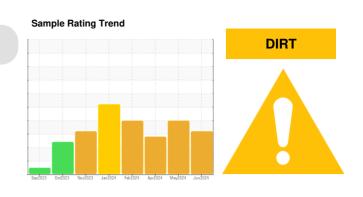


OIL ANALYSIS REPORT



Machine Id **CATERPILLAR D6 LGP 10041 (S/N KEW01161)** Component Hydraulic System Fluid TDH FLUID SAE 75W80 (--- 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

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 suitable for further service.

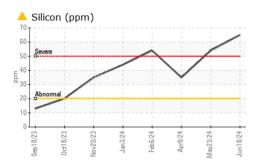
Sample Date Client Info 18 Jun 2024 23 May 2024 09 Apr 2024 Machine Age hrs Client Info 4172 3734 3152 Dil Age hrs Client Info 4172 3734 3152 Dil Changed Client Info 4172 3734 3152 Dil Changed Client Info 4172 3734 3152 Dil Changed Client Info 4172 3734 3152 CONTAMINATION method Imil/base current history1 ABNORMAL YEAR METALS method Imil/base current history1 history2 Parnomium ppm ASTM 05185m >20 27 23 17 Oron ppm ASTM 05185m >10 1 1 1 Vickel ppm ASTM 05185m >10 <1 0 0 Nomium ppm ASTM 05185m >10 <1 0 0 <1 Astimo 1085m 10	SAMPLE INFORM		method	limit/base	current	history1	history2
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Titanium ppm ASTM D5185m <1	Chromium	ppm	ASTM D5185m	>10	1	1	1
SilverppmASTM D5185m<100AluminumppmASTM D5185m>10312617LeadppmASTM D5185m>10<1	Nickel	ppm	ASTM D5185m	>10	0	0	0
Numinum ppm ASTM D5185m >10 31 26 17 Lead ppm ASTM D5185m >10 <1	Titanium	ppm	ASTM D5185m		<1	<1	<1
Numinum ppm ASTM D5185m >10 31 26 17 ead ppm ASTM D5185m >10 <1	Silver		ASTM D5185m		<1	0	0
Lead ppm ASTM D5185m >10 <1 <1 <1 <1 Copper ppm ASTM D5185m >75 12 9 7 Fin ppm ASTM D5185m >10 <1	Aluminum		ASTM D5185m	>10	9 31	26	1 7
Copper ppm ASTM D5185m >75 12 9 7 Fin ppm ASTM D5185m >10 <1	Lead				-	<1	<1
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Barium ppm ASTM D5185m 10 0 0 0 Molybdenum ppm ASTM D5185m 10 1 1 2 Manganese ppm ASTM D5185m 100 29 29 23 Calcium ppm ASTM D5185m 100 29 29 23 Calcium ppm ASTM D5185m 100 29 29 23 Calcium ppm ASTM D5185m 100 2073 2024 1852 Phosphorus ppm ASTM D5185m 1150 961 927 773 Zinc ppm ASTM D5185m 1150 1134 1101 906 Sulfur ppm ASTM D5185m 5000 3447 3227 2771 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 6 4 11 FLUID CLEANLINESS method limit/base	ADDITIVES		method	limit/base	current	history1	history2
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Marganesse ppm ASTM D5185m <1 <1 <1 <1 Magnesium ppm ASTM D5185m 100 29 29 23 Calcium ppm ASTM D5185m 3500 2073 2024 1852 Phosphorus ppm ASTM D5185m 1150 961 927 773 Zinc ppm ASTM D5185m 1150 1134 1101 906 Sulfur ppm ASTM D5185m 5000 3447 3227 2771 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 6 4 11 Potassium ppm ASTM D5185m >20 6 4 11 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 2284 6784 Particles >4µm ASTM D7647 >160	Barium	ppm	ASTM D5185m	10	0	0	0
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Sodium ppm ASTM D5185m 3 <1	CONTAMINANTS	;	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 6 4 11 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 2284 6784 Particles >6µm ASTM D7647 >1300 174 79 Particles >6µm ASTM D7647 >160 19 6 Particles >14µm ASTM D7647 >40 3 2 Particles >21µm ASTM D7647 >40 3 2 Particles >38µm ASTM D7647 >10 0 0 Particles >71µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 0 Particles >71µm ASTM D7647 >3 0 0 Dil Cleanliness ISO 4406 (c) 19/17/14 18/15/11 20/13/10 FLUID DEGRADATION	Silicon	ppm	ASTM D5185m	>20	6 5	🔺 54	A 35
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Particles >4µm ASTM D7647 >5000 2284 6784 Particles >6µm ASTM D7647 >1300 174 79 Particles >14µm ASTM D7647 >160 19 6 Particles >14µm ASTM D7647 >160 19 6 Particles >21µm ASTM D7647 >40 3 2 Particles >38µm ASTM D7647 >10 0 0 Particles >38µm ASTM D7647 >3 0 0 Particles >71µm ASTM D7647 >3 0 0 Particles >71µm ISO 4406 (c) >19/17/14 18/15/11 20/13/10 Dil Cleanliness ISO 4406 (c) >19/17/14 18/15/11 0.013/10 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOHg ASTM D8045 2.25 1.01 1.02 0.95	Potassium	ppm	ASTM D5185m	>20	6	4	11
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Particles >21μm ASTM D7647 >40 3 2 Particles >38μm ASTM D7647 >10 0 0 Particles >38μm ASTM D7647 >3 0 0 Particles >71μm ASTM D7647 >3 0 0 Dil Cleanliness ISO 4406 (c) >19/17/14 18/15/11 20/13/10 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 2.25 1.01 1.02 0.95	Particles >6µm		ASTM D7647	>1300	174	79	
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Dil Cleanliness ISO 4406 (c) >19/17/14 18/15/11 20/13/10 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 2.25 1.01 1.02 0.95	•		ASTM D7647	240			
FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 2.25 1.01 1.02 0.95	Particles >21µm					0	
Acid Number (AN) mg KOH/g ASTM D8045 2.25 1.01 1.02 0.95	Particles >21µm Particles >38µm		ASTM D7647	>10	0		
	Particles >14µm Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness		ASTM D7647 ASTM D7647	>10 >3	0 0	0	
10:28) Rev: 1 Contact/Location: MIKE WYATT - TRANEV	Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness		ASTM D7647 ASTM D7647 ISO 4406 (c)	>10 >3 >19/17/14	0 0 18/15/11	0	
	Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness FLUID DEGRADA Acid Number (AN)		ASTM D7647 ASTM D7647 ISO 4406 (c) method	>10 >3 >19/17/14 limit/base	0 0 18/15/11 current 1.01	0 20/13/10 history1 1.02	 history2 0.95

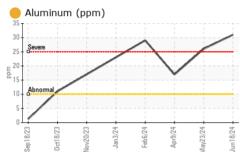
Report Id: TRANEW [WUSCAR] 06218107 (Generated: 06/25/2024 19:10:28) Rev: 1

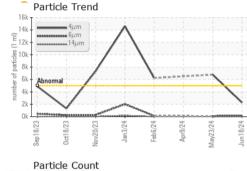
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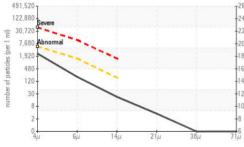


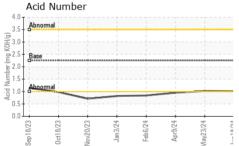
OIL ANALYSIS REPORT





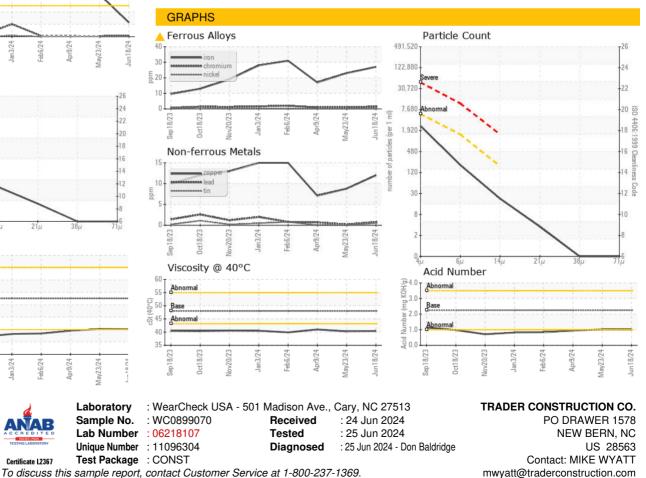






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	🔺 MODER
Sand/Dirt	scalar	*Visual	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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	48	40.4	40.3	41.0
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color				a.		

Bottom



* - 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

Contact/Location: MIKE WYATT - TRANEW

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