

WEAR CONTAMINATION FLUID CONDITION

NORMAL ABNORMAL NORMAL



[CONHER]

CATERPILLAR Pisa 4 Aux-1 - Pacifico Industrial

Aluminum

Lead

Tin

Copper

Diesel Engine

CHEVRON DELO 400 MULTIGRADE 15W40 (30 LTR)

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013447		
Sample Date		Client Info		13 Dec 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		Changed		
Sample Status				ABNORMAL		
Iron	ppm	ASTM D5185m	>105	13		
Chromium	ppm	ASTM D5185m	>5	<1		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	0		

0

1

0

ppm ASTM D5185m >10 ASTM D5185m >15

ppm ASTM D5185m >140

ASTM D5185m >4

ppm

ppm

WEAR

All component wear rates are normal.

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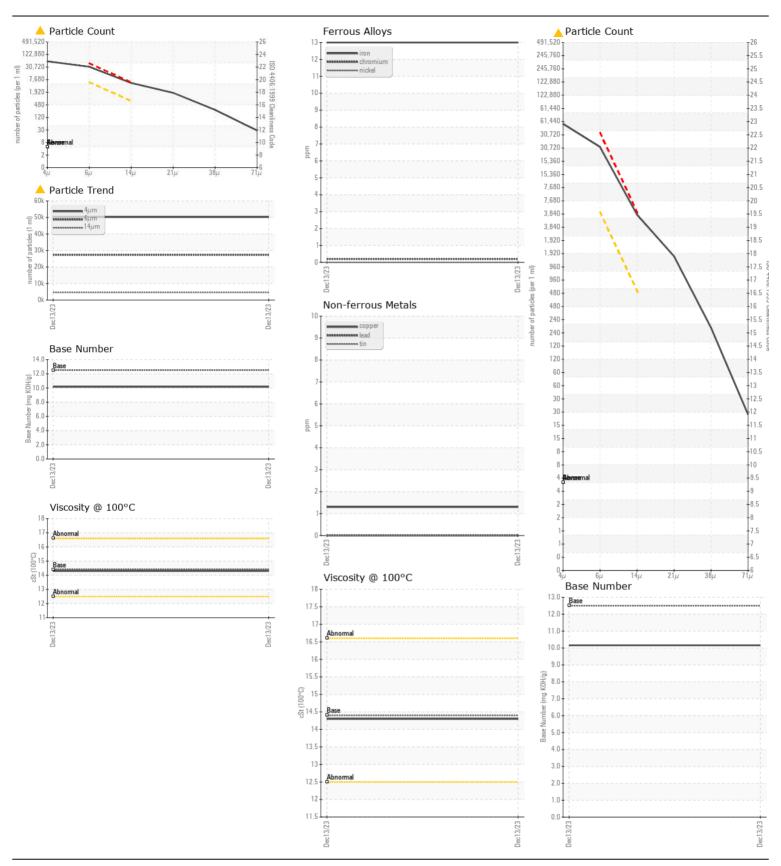
There is a high amount of particulates present in the oil.

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Vanadium	ppm	ASTM D5185m		0	
White Metal	scalar	*Visual	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	
Silicon	ppm	ASTM D5185m	>25	14	
Potassium	ppm	ASTM D5185m	>20	2	
Fuel		WC Method	>5	<1.0	
Water		WC Method	>0.2	NEG	
Glycol		WC Method		NEG	
Soot %	%	*ASTM D7844	>3	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	3.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	13.6	
Particles >4µm		ASTM D7647		50241	
Particles >6µm		ASTM D7647	>5000	27369	
Particles >14μm		ASTM D7647	>640	4658	
Particles >21µm		ASTM D7647	>160	1569	
Particles >38µm		ASTM D7647	>40	42	
Particles >71µm		ASTM D7647	>10	^ 25	
Oil Cleanliness		ISO 4406 (c)	>19/16	<u> </u>	
Silt	scalar	*Visual	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	

LUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Odoi	r	scalar	*Visual	NORML	NORML	
Emul	sified Water	scalar	*Visual	>0.2	NEG	
Sodi	um	ppm	ASTM D5185m		5	
Boro	n	ppm	ASTM D5185m	151	3	
Bariu	ım	ppm	ASTM D5185m	0.4	0	
Moly	bdenum	ppm	ASTM D5185m	250	19	
Man	ganese	ppm	ASTM D5185m		0	
Mag	nesium	ppm	ASTM D5185m	0	930	
Calc	ium	ppm	ASTM D5185m	2046	1602	
Phos	sphorus	ppm	ASTM D5185m	1043	952	
Zinc		ppm	ASTM D5185m	943	1121	
Sulfu	ır	ppm	ASTM D5185m	5012	3477	
Oxid	ation	Abs/.1mm	*ASTM D7414	>25	7.2	
Base	Number (BN)	mg KOH/g	ASTM D2896	12.5	10.16	
Visc	@ 100°C	cSt	ASTM D445	14.4	14.3	





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: KL0013447 : 06055991 : 10821940

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 09 Jan 2024 Diagnosed : 11 Jan 2024

Diagnostician : Don Baldridge Test Package : MOB 2 (Additional Tests: PrtCount)

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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