

OIL ANALYSIS REPORT



CATERPILLAR 990K 6088 (S/N A9P00362)

Diesel Engine Fluid NOT GIVEN (--- GAL)

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. (Customer Sample Comment: D/A oil)

Wear

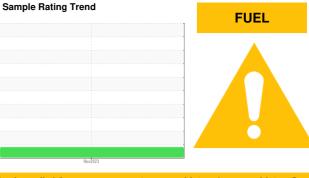
All component wear rates are normal.

Contamination

Light fuel dilution occurring.

Fluid Condition

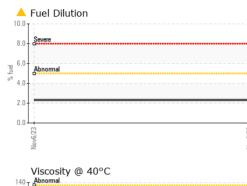
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

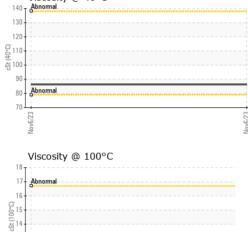


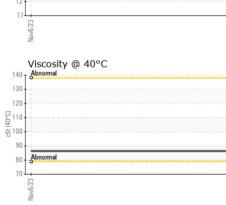
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO10002896		
Sample Date		Client Info		06 Nov 2023		
Machine Age	hrs	Client Info		14829		
Oil Age	hrs	Client Info		508		
Oil Changed		Client Info		Changed		
Sample Status				MARGINAL		
CONTAMINATION	N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	23		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	3		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	<1		
Tin	ppm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		61		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		952		
Calcium	ppm	ASTM D5185m		1097		
Phosphorus	ppm	ASTM D5185m		1080		
Zinc	ppm	ASTM D5185m		1282		
Sulfur	ppm	ASTM D5185m		3335		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4		
Sodium	ppm	ASTM D5185m		62		
Potassium	ppm	ASTM D5185m	>20	2		
Fuel	%	ASTM D3524	>5	<u> </u>		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4		
Nitration	Abs/cm	*ASTM D7624	>20	7.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5		
Base Number (BN)	mg KOH/g	ASTM D2896		9.66		
	0 0					

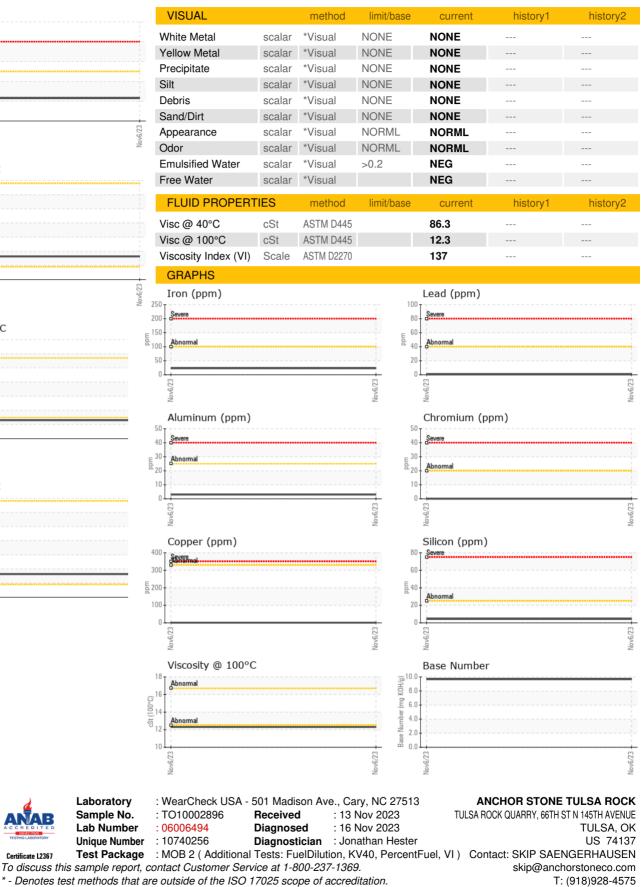


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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

Submitted By: SKIP SAENGERHAUSEN

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