

OIL ANALYSIS REPORT









CATERPILLAR 246D 5693 (S/N BYF05106)

Diesel Engine

{not provided} (--- QTS)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

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.

3)				May2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	historv2
	IATION		IIIIII/Dase			HISTOTYZ
Sample Number		Client Info		WC0912330		
Sample Date		Client Info		02 May 2024		
Machine Age	hrs	Client Info		2675		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION	1	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	19		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	4		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	5		
Tin	ppm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m	7.0	<1		
Cadmium	ppm	ASTM D5185m		0		
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ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		60		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		47		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		513		
Calcium	ppm	ASTM D5185m		1773		
Phosphorus	ppm	ASTM D5185m		951		
Zinc	ppm	ASTM D5185m		1115		
Sulfur	ppm	ASTM D5185m		3602		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	0		
Fuel	%	ASTM D3524	>5	0.1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	6.5		
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.5		



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Certificate 12367

Laboratory Sample No.

: WC0912330 Lab Number : 06178341 Unique Number : 11029667

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 May 2024

Tested : 17 May 2024 Diagnosed : 17 May 2024 - Jonathan Hester

Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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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