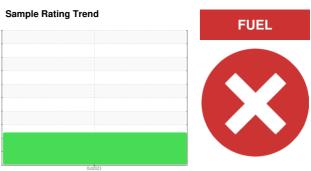




CHICAGO 95TH CATERPILLAR 966M L-150-1 (S/N 0KJP00662)

Diesel Engine

DIESEL ENGINE OIL S



DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

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

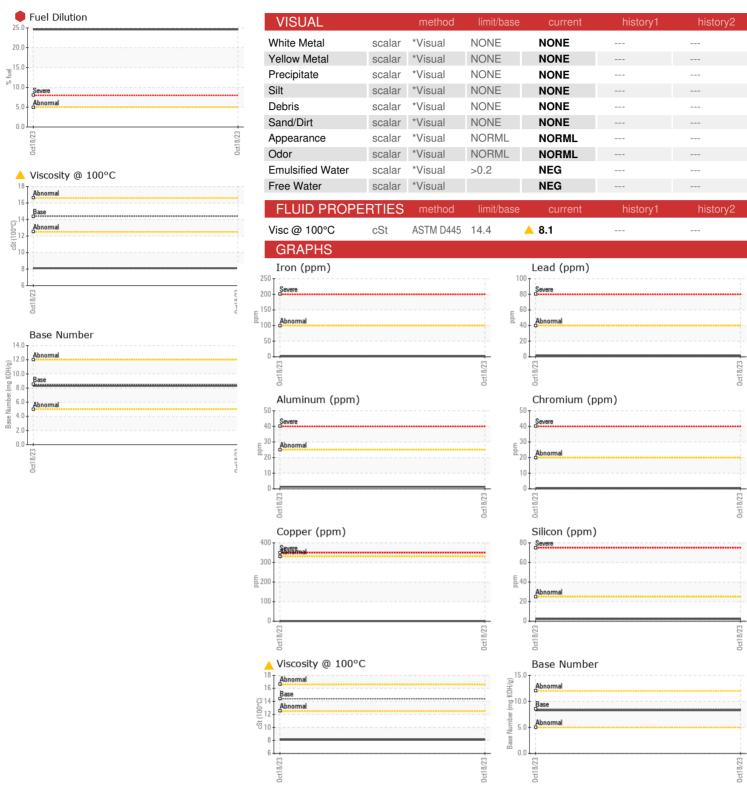
Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

AE 15W40 (G	AL)			Oct2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0105646		
Sample Date		Client Info		18 Oct 2023		
Machine Age	hrs	Client Info		11983		
Dil Age	hrs	Client Info		250		
Oil Changed	1110	Client Info		Changed		
Sample Status		Oliciti IIIIo		SEVERE		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Vater		WC Method	>0.2	NEG		
Glycol		WC Method	7 0.2	NEG		
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	2		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>2	0		
Fitanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m		1		
_ead		ASTM D5185m	>40	1		
	ppm	ASTM D5185m		<1		
Copper	ppm			<1		
in 'a a a dissara	ppm	ASTM D5185m	>15			
/anadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	1		
Barium	ppm	ASTM D5185m	10	0		
Nolybdenum	ppm	ASTM D5185m	100	37		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	450	622		
Calcium	ppm	ASTM D5185m	3000	713		
Phosphorus	ppm	ASTM D5185m	1150	712		
Zinc	ppm	ASTM D5185m	1350	845		
Sulfur	ppm	ASTM D5185m	4250	2128		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2		
Sodium	ppm	ASTM D5185m	>158	1		
Potassium	ppm	ASTM D5185m	>20	<1		
-uel	%	ASTM D3524	>5	24.6		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	7.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.5		
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0		
Base Number (BN)	mg KOH/g	ASTM D2896		8.3		
Dage Number (DIV)	my Norty	AUTIVI DZ030	0.0	0.0		



OIL ANALYSIS REPORT







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0105646 Lab Number : 06076497

Unique Number : 10858588

Received **Tested**

Diagnosed

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

: 01 Feb 2024

: 05 Feb 2024

: 05 Feb 2024 - Jonathan Hester

* - 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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