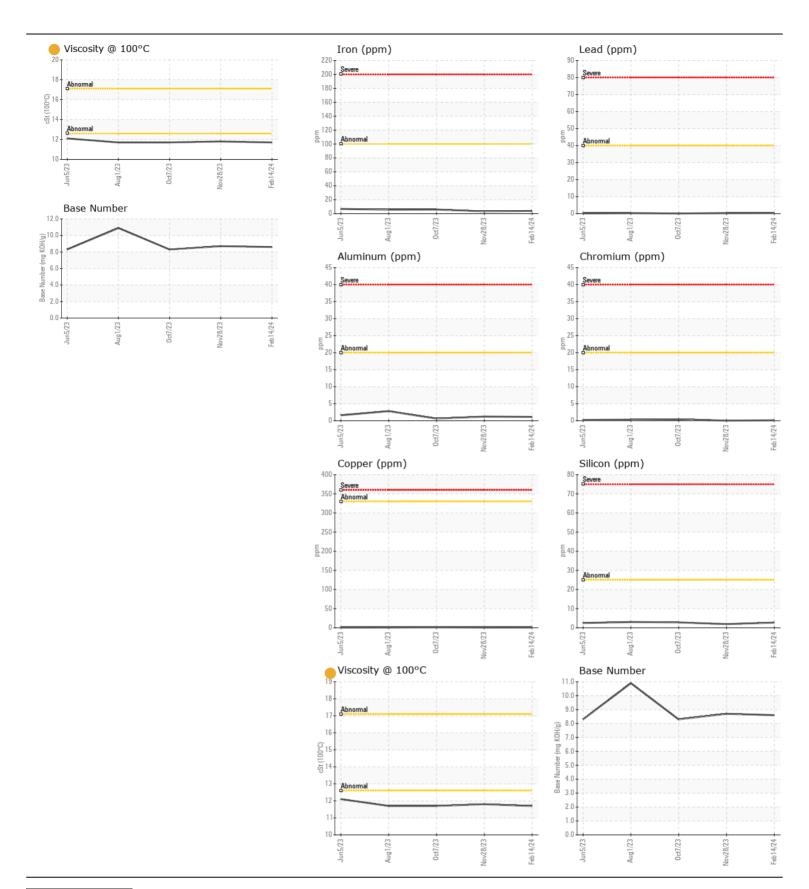
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL ATTENTION

CATERPILLAR D6R 106

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TESSMINIERDATION	Sample Number	00.01	Client Info	Ziiiii07 koii	WC0878817	WC0868063	WC082216
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		14 Feb 2024	28 Nov 2023	07 Oct 202
	Machine Age	hrs	Client Info		16607	16340	16088
	Oil Age	hrs	Client Info		267	252	262
	Filter Age	hrs	Client Info		267	252	262
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	ATTENTION	ATTENTIO
WEAR		nnm	ASTM D5185m	>100	л	3	6
WEAN	Iron Chromium	ppm	ASTM D5185m		4	0	6 <1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1 0	<1	0
	Titanium	ppm	ASTM D5185m	>4	0	0	<1
	Silver		ASTM D5185m	~3	0	0	0
	Aluminum	ppm	ASTM D5185m		1	1	<1
	Lead	ppm	ASTM D5185m		- 1 <1	<1	0
	Copper	ppm	ASTM D5185m		<1	<1	2
	Tin	ppm	ASTM D5185m		<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	0.11.		AOTA DE LOS	05			
	Silicon	ppm	ASTM D5185m		3	2	3
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0	0	0
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0/	*ASTM D7844	. 0	NEG	NEG 0.1	NEG 0.1
	Soot % Nitration	% Abs/cm	*ASTM D7644	>3 >20	0.1 7.0	0.1 6.8	0.1 6.7
	Sulfation	Abs/.1mm	*ASTM D7024		18.4	18.5	18.0
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
TI LUD CONDITION	0 "		AOTA DE LOS				
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	1	4
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m		5	8	5
	Barium	ppm	ASTM D5185m		0	0	4
	Molybdenum	ppm	ASTM D5185m ASTM D5185m		58	64 <1	60 <1
	Manganese	ppm			<1		
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		961 1060	958 1112	867 1060
	Phosphorus	ppm	ASTM D5165III		1145	1143	975
	Zinc	ppm	ASTM D5185m		1302	1323	1119
	Sulfur	ppm	ASTM D5185m		3241	3381	2862
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	14.5	14.2
	Base Number (BN)		ASTM D2896	720	8.6	8.7	8.3
	2000 Hambor (DIV)	9 1.01119			3.0	J.,	0.0







Laboratory Sample No.

Lab Number : 06105018 Unique Number : 10903248

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0878817

Received **Tested** Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

:01 Mar 2024 : 04 Mar 2024 - Sean Felton

: 29 Feb 2024

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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F: Contact/Location: NEIL ? - CLBMYR