WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

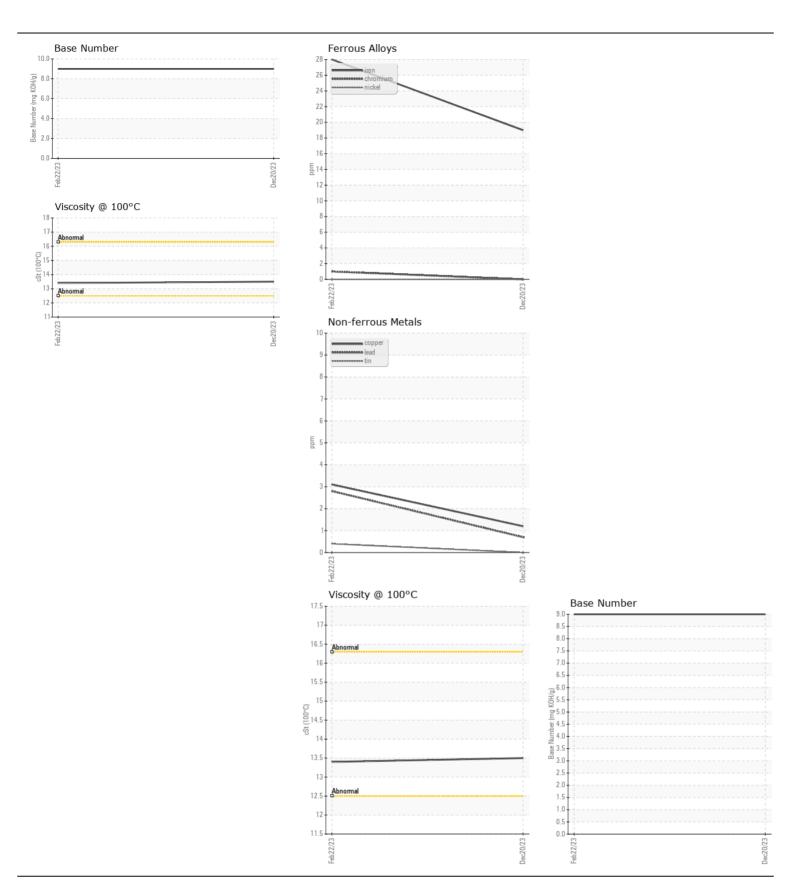
NORMAL



Ascendum Machinery/250 Hour CSA Machine Id CATERPILLAR 953C 1500 (S/N BBX00532)

Diesel Engine

					/		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0002637	VCP0006066	
	Sample Date		Client Info		20 Dec 2023	22 Feb 2023	
	Machine Age	hrs	Client Info		8432	7955	
	Oil Age	hrs	Client Info		477	7955	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	\100	19	28	
WLAN	Chromium		ASTM D5185m		0	1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm			-		
	Aluminum	ppm	ASTM D5185m ASTM D5185m		0 5	0 4	
	Lead	ppm	ASTM D5185m			3	
	Copper	ppm	ASTM D5185m		<1 1	3	
	Tin		ASTM D5185m		0	<1	
	Vanadium	ppm	ASTM D5185m	>10	0	0	
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
<u></u>		Scalai	Visuai				
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	10	8	
Moderate concentration of visible dirt/debris present in the oil.	Potassium	ppm	ASTM D5185m	>20	2	1	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.2	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	8.3	8.5	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	20.7	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	▲ MODER	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	nnm	ASTM D5185m		5	1	
FLUID CONDITION		ppm					
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron Barium	ppm	ASTM D5185m ASTM D5185m		18 0	15 0	
		ppm					
	Molybdenum	ppm	ASTM D5185m ASTM D5185m		63	63	
	Manganese Magnesium	ppm			0	<1	
	Calcium	ppm	ASTM D5185m ASTM D5185m		973 1235	939 1264	
	Phosphorus	ppm	ASTM D5185m		1068	1082	
	Zinc	ppm	ASTM D5185m		1392	1329	
	Sulfur	ppm	ASTM D5185m		3127	3396	
	Oxidation		*ASTM D7414	>25	18.1	17.8	
	Base Number (BN)	Abs/.1mm		>20	9.0	9.0	
	Visc @ 100°C		ASTM D2696 ASTM D445			13.4	
	visc @ 100-C	cSt	C440 IVI D440		13.5	13.4	







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

: ASC0002637 : 06057654 : 10823603

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 11 Jan 2024 Diagnosed : 12 Jan 2024

Diagnostician : Sean Felton

Test Package : CONST (Additional Tests: TBN)

* - 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)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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