WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

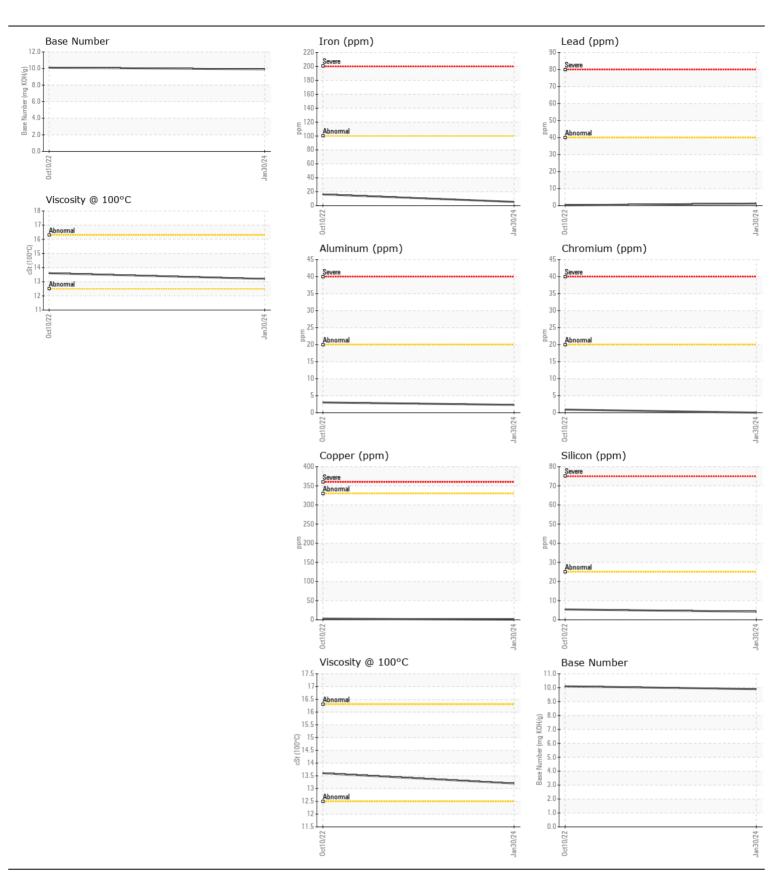
Aros

Ascendum Machinery/250 Hour CSA KUBOTA KX080-4 2152 (S/N 11399)

Component Diesel Engine

VOLVO VDS-4.5 Premium Motor Oil 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0001633	VCP0002180	
	Sample Date		Client Info		30 Jan 2024	10 Oct 2022	
	Machine Age	hrs	Client Info		2243	1174	
	Oil Age	hrs	Client Info		1069	1174	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	5	16	
WEAR	Chromium	ppm	ASTM D5185m		0	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m	77	0	<1	
	Silver	ppm	ASTM D5185m	~3	0	0	
	Aluminum	ppm	ASTM D5185m		2	3	
	Lead	ppm	ASTM D5185m		1	<1	
	Copper	ppm	ASTM D5185m		- <1	3	
	Tin	ppm	ASTM D5185m		<1	<1	
	Vanadium	ppm	ASTM D5185m	710	<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
······				11011			
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	5	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	11	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.1	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	7.5	11.3	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	24.4	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	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	
ELUID CONDITION	Codium	nnm	ACTM DE10E			2	
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185m		3 50	2 28	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m ASTM D5185m		0 0	0	
	Molybdenum	ppm			42	54	
	•	ppm	ASTM D5185m ASTM D5185m				
	Manganese Magnesium	ppm	ASTM D5185m		<1 574	<1 551	
	Calcium	ppm	ASTM D5185m		1602	1888	
	Phosphorus	ppm	ASTM D5185m		1024	1009	
	Zinc		ASTM D5185m		1191	1220	
	Sulfur	ppm	ASTM D5185m		3153	3628	
	Oxidation	ppm Abs/.1mm	*ASTM D7414	>25	21.1	23.8	
	Base Number (BN)		ASTM D2896	723	9.9	10.1	







Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number**

: 06075526 : 10857617

: ASC0001633

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 31 Jan 2024 : 01 Feb 2024 Diagnosed

Diagnostician : Wes Davis

Test Package : MOBCE (Additional Tests: TBN) 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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