WEAR CONTAMINATION FLUID CONDITION

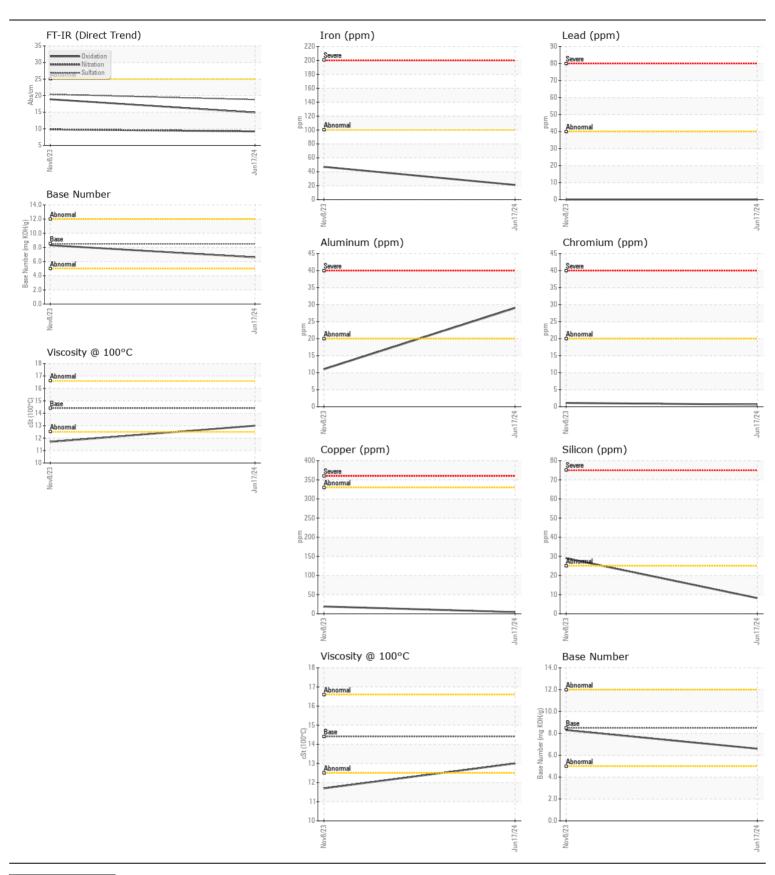
NORMAL NORMAL NORMAL

Machine Id

1841

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0949004	WC0870826	
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Date		Client Info		17 Jun 2024	08 Nov 2023	
	Machine Age	mls	Client Info		19719	3977	
	Oil Age	mls	Client Info		0	0	
	Filter Age	mls	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Not Changd	
	Sample Status				NORMAL	ABNORMAL	
MEAR	Iron	nnm	ASTM D5185m	>100	21	47	
WEAR	Chromium	ppm	ASTM D5185m		<1	1	
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m	74	0	<1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m		29	11	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		4	19	
	Tin	ppm	ASTM D5185m		0	0	
	Vanadium	ppm	ASTM D5185m	7.0	0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		8	29	
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		71	<u></u> 50	
	Fuel		WC Method	>5	<1.0	1.4	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	0/	WC Method	0	NEG	NEG	
	Soot %	% Ala a /ava	*ASTM D7844		0.3	0.3	
	Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	9.2 18.8	9.8 20.4	
	Silt		*Visual	NONE	NONE	NONE	
	Debris	scalar 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		*Visual	>0.2	NEG	NEG	
LUD CONDITION					• • • • • • • • • • • • • • • • • • • •		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	6	
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		59	38	
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	2	
	Molybdenum	ppm	ASTM D5185m ASTM D5185m	100	82	51	
	Magagium	ppm	ASTM D5185m	150	<1 127	5 730	
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		127 1907	739 1251	
	Phosphorus	ppm	ASTM D5185m		912	765	
	Zinc	ppm	ASTM D5185m		1192	893	
	Sulfur	ppm	ASTM D5185m		3374	2369	
	Oxidation	Abs/.1mm	*ASTM D3163111		14.9	18.9	
	Base Number (BN)				6.6	8.3	
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Certificate L2367

Laboratory

Sample No. Lab Number : 06220946

: WC0949004

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Jun 2024 **Tested** : 27 Jun 2024 : 27 Jun 2024 - Wes Davis

Unique Number : 11099143 Diagnosed Test Package : MOB 1 ( 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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