

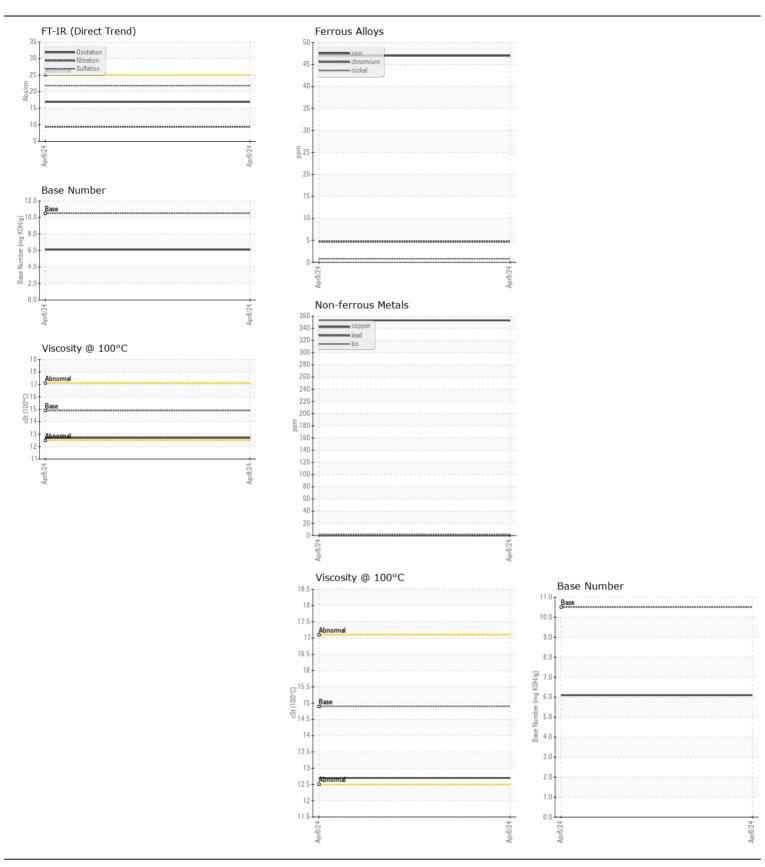
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

2420 Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Number		Client Info		WC0719990		
	Sample Date		Client Info		08 Apr 2024		
	Machine Age	mls	Client Info		69097		
	Oil Age	mls	Client Info		50000		
	Filter Age	mls	Client Info		50000		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR				400			
WEAR	Iron	ppm	ASTM D5185m		47		
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		5		
	Nickel	ppm	ASTM D5185m	>4	<1		
	Titanium	ppm	ASTM D5185m	0	<1		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m		31		
	Lead	ppm	ASTM D5185m		0		
	Copper Tin	ppm	ASTM D5185m		353		
	Vanadium	ppm	ASTM D5185m ASTM D5185m	>10	2 <1		
	White Metal	ppm scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
<u></u>		Scalai	Visuai	INOINL	INOINE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7		
	Potassium	ppm	ASTM D5185m	>20	68		
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.	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.7		
	Nitration	Abs/cm	*ASTM D7624	>20	9.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
ELLID CONDITION	Sodium	nnm	ASTM D5185m		2		
FLUID CONDITION	Boron	ppm	ASTM D5185m	0	1		
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		0		
	Molybdenum	ppm	ASTM D5185m		7		
	Manganese	ppm	ASTM D5185m	100	2		
	Magnesium	ppm	ASTM D5185m	60	89		
	Calcium	ppm	ASTM D5185m	3050	2458		
	Phosphorus	ppm	ASTM D5185m		971		
	Zinc	ppm	ASTM D5185m		1118		
	Sulfur	ppm	ASTM D5185m		2996		
	Oxidation	Abs/.1mm	*ASTM D7414		16.9		
	Base Number (BN)		ASTM D2896		6.1		
	Visc @ 100°C	cSt	ASTM D445		12.7		







Laboratory Sample No.

: WC0719990 Lab Number : 06174838 Unique Number : 11020891 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 09 May 2024 **Tested**

: 10 May 2024 Diagnosed : 10 May 2024 - Wes Davis **DILLON TRANSPORTATION** 974 TN WALTZ PARKWAY

ASHLAND CITY, TN US 37015

Contact: MASON NICHOLSON

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Certificate L2367 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) F: (615)469-4200

Contact/Location: MASON NICHOLSON - DILASH