WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL NORMAL NORMAL**

Machine Id 2415

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0720103	WC0720085	-
No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		01 May 2024	12 Mar 2024	
	Machine Age	mls	Client Info		128879	76297	
	Oil Age	mls	Client Info		100000	50000	
	Filter Age	mls	Client Info		50000	50000	
	Oil Changed		Client Info		Changed	Not Changd	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	ABNORMAL	
MEAD	lvon		ACTM DE10Em	. 100		0.4	
WEAR The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.	Iron	ppm	ASTM D5185m		69	34	
	Chromium Nickel	ppm	ASTM D5185m		2	<1 0	
	Titanium	ppm	ASTM D5185m ASTM D5185m	>4	<1 <1	0	
	Silver	ppm	ASTM D5185m	^3	<1 <1	0	
	Aluminum	ppm	ASTM D5185m		20	15	
	Lead	ppm	ASTM D5185m		0	2	
	Copper	ppm	ASTM D5185m		<u> </u>	<u>△</u> 368	
	Tin	ppm	ASTM D5185m		1	0	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon		ASTM D5185m	. 05	11	7	
CONTAMINATION	Potassium	ppm	ASTM D5185m		48	32	
Elevated aluminum (AI) 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	ррпп	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	7 U.L	NEG	NEG	
	Soot %	%	*ASTM D7844	>3	1.2	0.7	
	Nitration	Abs/cm	*ASTM D7624		15.2	11.0	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	28.3	23.3	
	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	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	4	
	Boron	ppm	ASTM D5185m	0	0	2	
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	0	
	Molybdenum	ppm	ASTM D5185m		8	7	
	Manganese	ppm	ASTM D5185m		3	1	
	Magnesium	ppm	ASTM D5185m	60	99	91	
	Calcium	ppm	ASTM D5185m	3050	2717	2366	
	Phosphorus	ppm	ASTM D5185m	1050	1051	815	
				4000		050	
	Zinc	ppm	ASTM D5185m	1200	1226	952	

Oxidation

Visc @ 100°C cSt

Abs/.1mm *ASTM D7414 >25

ASTM D445 14.9

Base Number (BN) mg KOH/g ASTM D2896 10.5

20.3

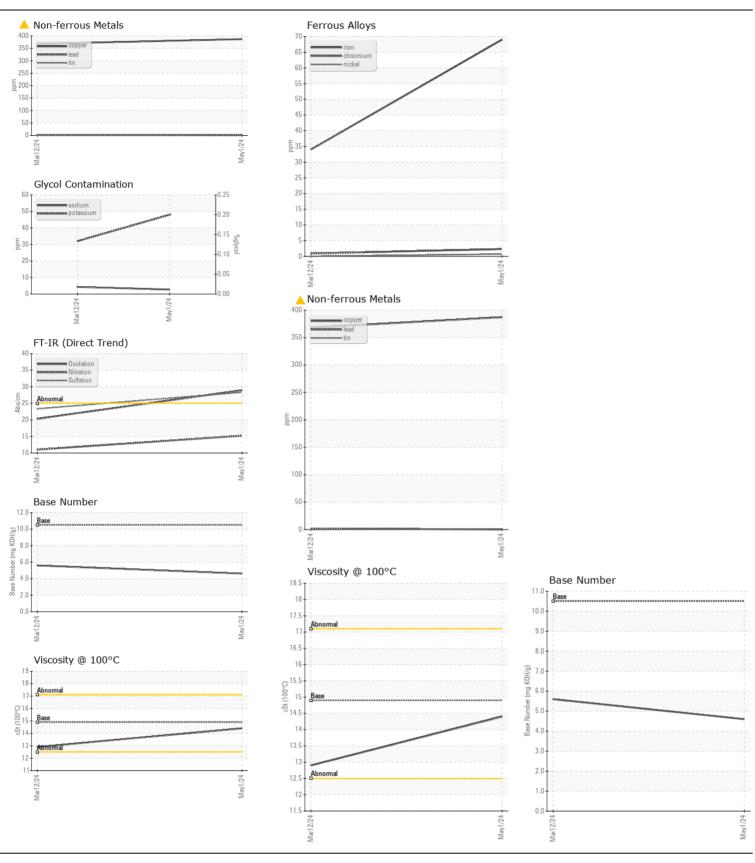
5.6

12.9

28.9

4.6

14.4







Certificate L2367

Report Id: DILASH [WUSCAR] 06174825 (Generated: 05/13/2024 14:16:20) Rev: 1

Laboratory Sample No.

: WC0720103 Lab Number : 06174825 Unique Number : 11020878 Test Package : FLEET

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

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

Tested Diagnosed

: 09 May 2024 : 10 May 2024 : 13 May 2024 - Sean Felton **DILLON TRANSPORTATION** 974 TN WALTZ PARKWAY ASHLAND CITY, TN

US 37015 Contact: MASON NICHOLSON

M.NICHOLSON@DILLONTRANSPORTATION.COM T: (615)792-5099

* - 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