WEAR CONTAMINATION FLUID CONDITION

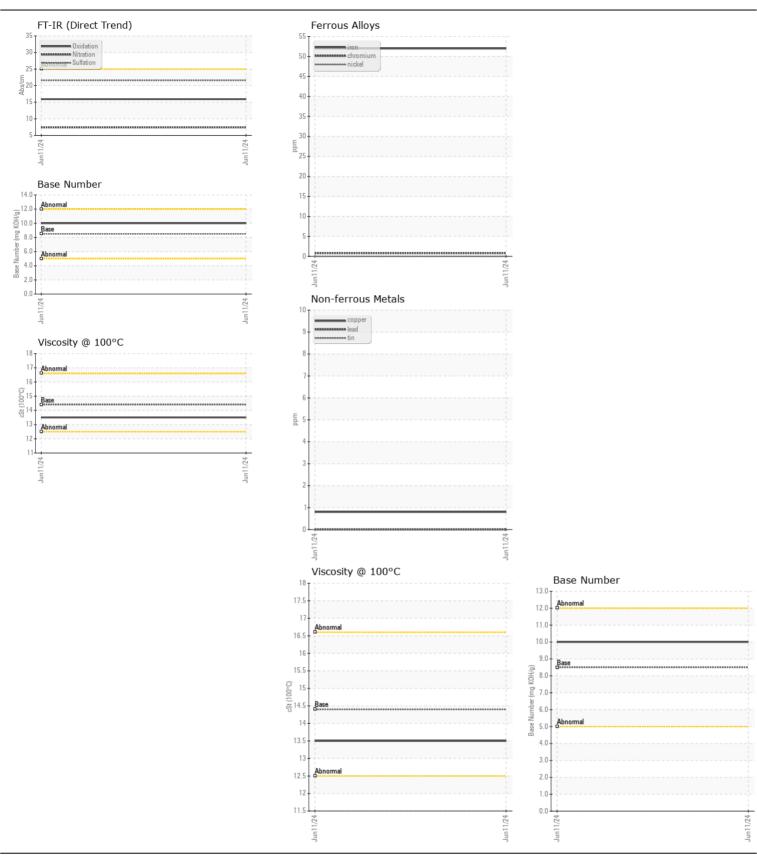
NORMAL NORMAL

Machine Id

528/B-1

Component Diesel Engine

DECOMMENDATION	Toot	UOM	Mathad	Limit/Abn	Current	Lintond	Llictor :C
RECOMMENDATION	Test	UOM	Method	LIMIT/ADN		History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0868221		
	Sample Date	hro	Client Info		11 Jun 2024		
	Machine Age Oil Age	hrs			0		
		hrs	Client Info		0		
	Filter Age	hrs	Client Info		O Changed		
	Oil Changed				Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
VEAR	Iron	ppm	ASTM D5185m	>100	52		
	Chromium	ppm	ASTM D5185m	>20	<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		20		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		<1		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	·····						
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	7.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6		
	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		
I LUD CONDITION				4=0			
LUID CONDITION	Sodium	ppm	ASTM D5185m		1		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		330		
	Barium	ppm	ASTM D5185m		1		
	Molybdenum	ppm	ASTM D5185m	100	116		
	Manganese	ppm	ASTM D5185m	450	<1		
	Magnesium	ppm	ASTM D5185m		737		
	Calcium	ppm	ASTM D5185m		1734		
	Phosphorus	ppm	ASTM D5185m		821		
	Zinc	ppm	ASTM D5185m		957		
	Sulfur	ppm	ASTM D5185m		3368		
	Oxidation	Abs/.1mm	*ASTM D7414		15.9		
	Base Number (BN)		ASTM D2896		10.0		
	Visc @ 100°C	cSt	ASTM D445	144	13.5		







Certificate L2367

Laboratory

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No.

Lab Number : 06213220 Unique Number : 11086084

: WC0868221 Received **Tested**

: 19 Jun 2024 Diagnosed : 20 Jun 2024 - Don Baldridge

: 18 Jun 2024

Test Package : CONST (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)

CYFAIR FIRE DEPARTMENT

10710 TELGE RD HOUSTON, TX US 77095

Contact: JEFF DAVIDSON jeff.davidson@cyfairfd.org

> T: (281)656-3440 F: (281)807-1853