WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

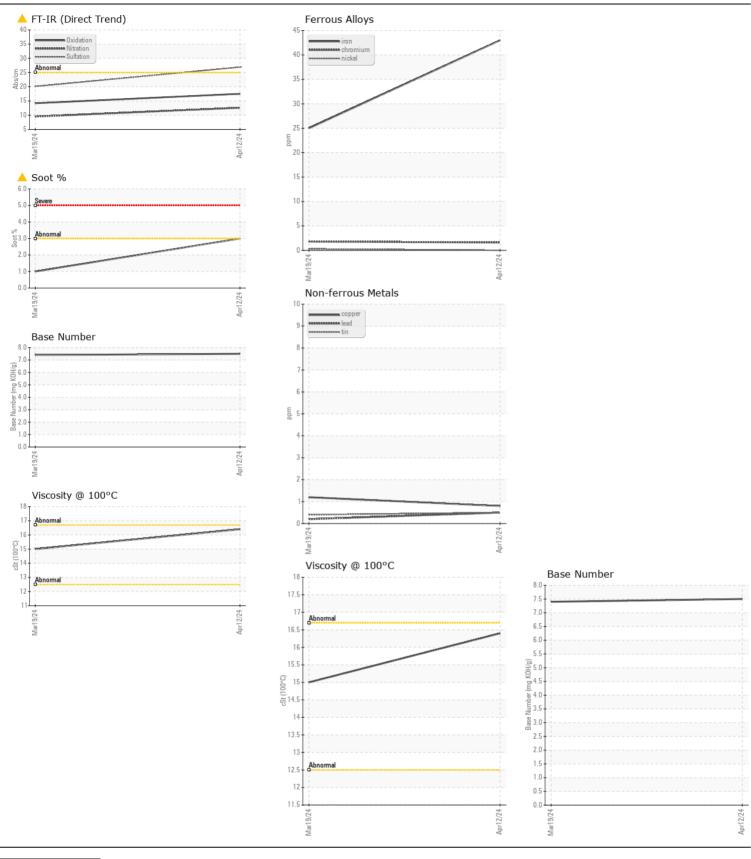
NORMAL

Machine Id

HITACHI 1201

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted.	Sample Number		Client Info		WC0924757	WC0783501	
	Sample Date		Client Info		12 Apr 2024	19 Mar 2024	
	Machine Age	hrs	Client Info		10177	9920	
	Oil Age	hrs	Client Info		500	500	
	Filter Age	hrs	Client Info		500	500	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m		43	25	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		2	2	
	Nickel	ppm	ASTM D5185m	>4	0	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		13	11	
	Lead	ppm	ASTM D5185m		<1	<1	
	Copper	ppm	ASTM D5185m		<1	1	
	Tin	ppm	ASTM D5185m	>15	<1	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	nnm	ASTM D5185m	- 25	23	9	
CONTAININATION	Potassium	ppm	ASTM D5185m		16	2	
Light concentration of carbon/soot present in the oil.	Fuel	ppm %	ASTM D3163111		<1.0	<1.0	
	Water	70	WC Method		< 1.0 NEG	NEG	
			WC Method	>0.2	NEG	NEG	
	Glycol Soot %	0/		. 0		1	
		%	*ASTM D7844 *ASTM D7624		<u>^</u> 3	-	
	Nitration	Abs/cm		>20	12.6	9.5	
	Sulfation	Abs/.1mm	*ASTM D7415		26.9 NONE	20.1	
	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	<1	
	Boron	ppm	ASTM D5185m		32	47	
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		73	81	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		35	35	
	Calcium	ppm	ASTM D5185m		2374	2345	
	Phosphorus	ppm	ASTM D5185m		1014	921	
	Zinc	ppm	ASTM D5185m		1222	1210	
	Sulfur	ppm	ASTM D5185m		4071	3744	
	Oxidation	Abs/.1mm	*ASTM D5165III	>25	17.5	14.2	
	Base Number (BN)			/25	7.5	7.4	
	Dase Mullipel (DIN)	nig KON/g	AO INI DZ030		1.0	15.0	





Report Id: CONALBNY [WUSCAR] 06150915 (Generated: 04/18/2024 10:43:13) Rev: 1

Laboratory Sample No.

: WC0924757 **Lab Number** : 06150915 Unique Number : 10980993

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

Tested Diagnosed Test Package : CONST (Additional Tests: FuelDilution, TBN)

Received : 16 Apr 2024 : 18 Apr 2024

: 18 Apr 2024 - Wes Davis

PO BOX 12010 ALBANY, NY US 12212 Contact: MIKE STEVENS

CONTRACTORS SALES COMPANY INC.

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.

mstevens@contractorssales.com T: (518)456-1445 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (518)456-1449

Contact/Location: MIKE STEVENS - CONALBNY