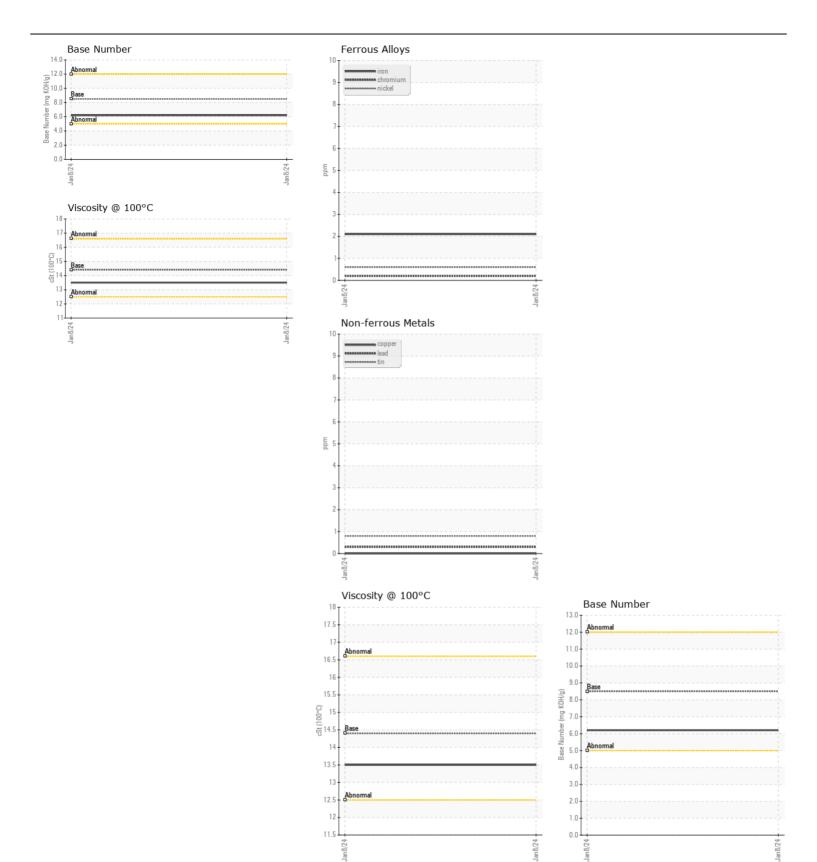
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

Machine Id

HITACHI 1190

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. (looking for blow-by).	Sample Number		Client Info		WC0783524		
	Sample Date		Client Info		08 Jan 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
VEAR	Iron	ppm	ASTM D5185m	>100	2		
	Chromium	ppm	ASTM D5185m	>20	<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m	77	0		
	Silver		ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		3		
	Lead		ASTM D5185m		ა <1		
	Copper	ppm	ASTM D5185m		0		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m	210	<1 <1		
	White Metal	ppm	*Visual	NONE	NONE		
		scalar					
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0		
	Nitration	Abs/cm	*ASTM D7624	>20	6.9		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.0		
	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		
LUID CONDITION	Sodium	ppm	ASTM D5185m	>158	0		
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	250	53		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m	100	65		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m	450	24		
	Calcium	ppm	ASTM D5185m		1872		
	Phosphorus	ppm	ASTM D5185m		921		
	Zinc	ppm	ASTM D5185m		1116		
	Sulfur	ppm	ASTM D5185m		3486		
	Oxidation	Abs/.1mm	*ASTM D7414		11.6		
	Base Number (BN)		ASTM D2896		6.2		
	Visc @ 100°C	cSt	ASTM D445		13.5		
	*100 W 100 U	JOL	CFFG INI D143	1-77	10.0		







Laboratory Sample No. Lab Number

Unique Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0783524 : 06057858 : 10829240

Recieved Diagnosed Test Package : CONST (Additional Tests: TBN)

: 12 Jan 2024 Diagnostician : Don Baldridge

: 11 Jan 2024

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.

Contact: MIKE STEVENS mstevens@contractorssales.com T: (518)456-1445

CONTRACTORS SALES COMPANY INC.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

PO BOX 12010

F: (518)456-1449

ALBANY, NY

US 12212