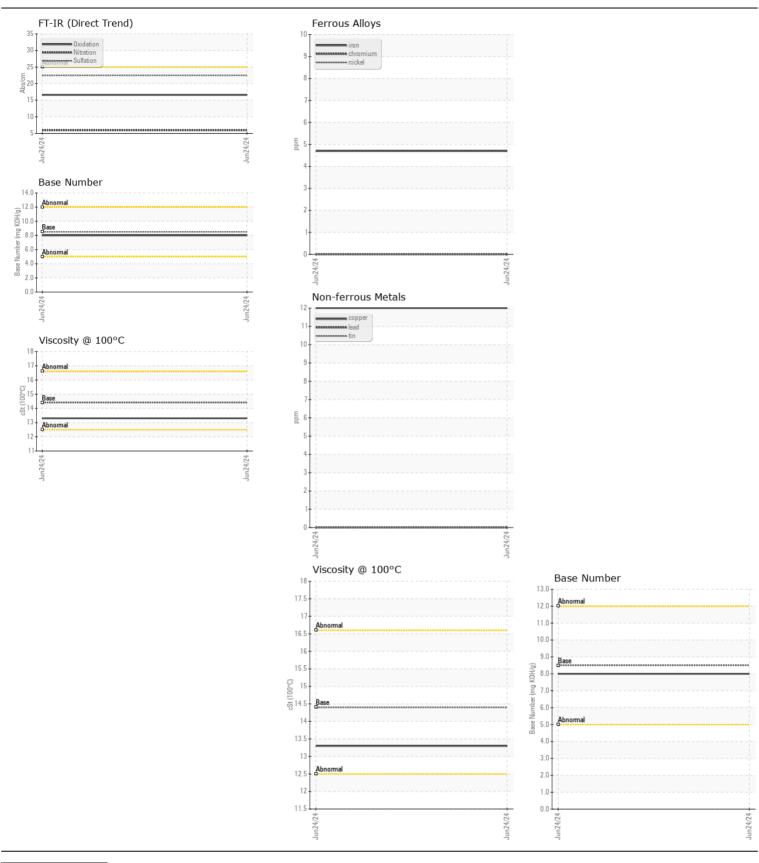
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

Machine Id

VOLVO CX160D NHS7F1407

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.	Sample Number		Client Info		JR0219777		
	Sample Date		Client Info		24 Jun 2024		
	Machine Age	hrs	Client Info		4523		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
VEAR	Iron	ppm	ASTM D5185m	>100	5		
	Chromium	ppm	ASTM D5185m		0		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	72	0		
	Silver		ASTM D5185m	. 2	0		
	Aluminum	ppm	ASTM D5185m		6		
		ppm			-		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		12		
	Tin	ppm	ASTM D5185m	>10	0		
	Vanadium	ppm	ASTM D5185m	NONE	0		
	White Metal	scalar	*Visual	NONE	NONE		
<u></u>	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	12		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2		
	Fuel		WC Method	>6.0	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	5.9		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5		
	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		*Visual	>0.2	NEG		
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m	>216	2		
	Boron	ppm	ASTM D5185m		405		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		108		
	Manganese		ASTM D5185m	100			
	-	ppm	ASTM D5185m	450	<1 521		
	Magnesium	ppm					
	Calcium	ppm	ASTM D5185m		1510		
	Phosphorus	ppm	ASTM D5185m		970		
	Zinc	ppm		1350	1110		
	Sulfur	ppm	ASTM D5185m		3512		
	Oxidation	Abs/.1mm	*ASTM D7414		16.6		
	Base Number (BN)		ASTM D2896		8.0		
	Visc @ 100°C	cSt	ASTM D445	14.4	13.3		







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0219777 Lab Number : 06220836

Unique Number : 11099033

Received **Tested** Test Package : CONST (Additional Tests: TBN)

: 26 Jun 2024 Diagnosed

: 27 Jun 2024 : 27 Jun 2024 - Wes Davis

JRE - CHARLOTTE 9550 STATESVILLE ROAD CHARLOTTE, NC US 28269

Contact: CHARLOTTE SHOP myoung@jamesriverequipment.com

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. T: (704)597-0211 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (704)596-6198