WEAR CONTAMINATION **FLUID CONDITION**

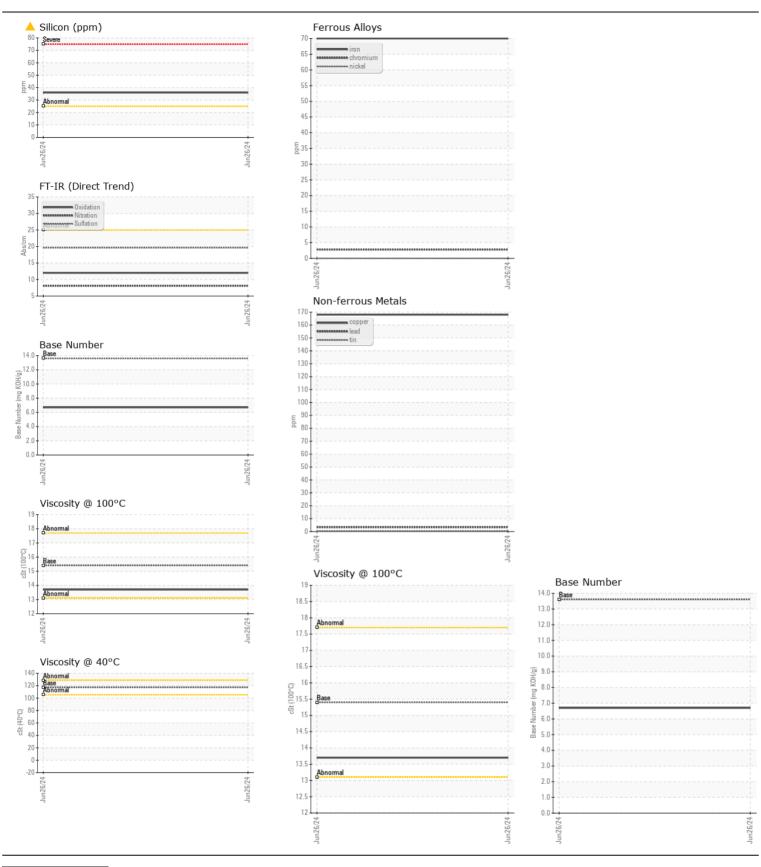
NORMAL ABNORMAL NORMAL

[W68027-3]

FINN B70T MU-4573

Diesel Engine

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0219701		
	Sample Date		Client Info		26 Jun 2024		
	Machine Age	hrs	Client Info		684		
	Oil Age	hrs	Client Info		684		
	Filter Age	hrs	Client Info		684		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
/EAD	Iron	nnm	ASTM D5185m	>100	70		
WEAR	Chromium	ppm	ASTM D5185m		3		
Metal levels are typical for a new component breaking in.	Nickel		ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	>4	<1		
	Silver		ASTM D5185m	. 2	0		
	Aluminum	ppm	ASTM D5185m		14		
	Lead	ppm	ASTM D5185m	>40	3		
	Copper	ppm	ASTM D5185m		ა 168		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m	>10	<1		
	White Metal	ppm scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
			v 150aa1				
ONTAMINATION	Silicon	ppm	ASTM D5185m	>25	△ 36		
Elemental level of silicon (Si) above normal indicating ingress of seal material.	Potassium	ppm	ASTM D5185m		12		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.5		
	Nitration	Abs/cm	*ASTM D7624	>20	8.1		
	Sulfation	Abs/.1mm	*ASTM D7415		19.6		
	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		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Sodium	ppm	ASTM D5185m		3		
	Boron	ppm	ASTM D5185m		2		
	Barium	ppm	ASTM D5185m		<1		
	Molybdenum	ppm	ASTM D5185m		3		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m		41		
	Calcium	ppm	ASTM D5185m		2818		
	Phosphorus	ppm	ASTM D5185m		1049		
	Zinc	ppm	ASTM D5185m		1392		
	Sulfur	ppm	ASTM D5185m		4793		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	12.0		
	Base Number (BN)		ASTM D2896		6.7		
	Visc @ 100°C	cSt	ASTM D445		13.7		





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0219701 Lab Number : 06223271

Received **Tested** Diagnosed Unique Number: 11101468

: 28 Jun 2024 : 01 Jul 2024 Test Package : CONST (Additional Tests: KV40, TBN)

: 01 Jul 2024 - Don Baldridge

JRE - CHARLOTTE 9550 STATESVILLE ROAD CHARLOTTE, NC US 28269

Contact: CHARLOTTE SHOP myoung@jamesriverequipment.com T: (704)597-0211

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.

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