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

**NORMAL NORMAL NORMAL** 

Machine Id

## TL-10 Component Diesel Engine

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		KFS0003993		
	Sample Date		Client Info		11 Apr 2024		
	Machine Age	hrs	Client Info		667		
	Oil Age	hrs	Client Info		500		
	Filter Age	hrs	Client Info		500		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
EAR	Iron	ppm	ASTM D5185m	<b>\100</b>	23		
VEAIL	Chromium	ppm	ASTM D5185m		<1		
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m	77	<1		
	Silver		ASTM D5185m	~3	0		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		12		
	Tin	ppm	ASTM D5185m		1		
	Vanadium	ppm	ASTM D5185m	710	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
ONTAMINATION	Silicon	ppm	ASTM D5185m		8		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		13		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.4		
	Nitration	Abs/cm	*ASTM D7624	>20	8.3		
	Sulfation	Abs/.1mm	*ASTM D7415		18.4		
	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 suitable for further service.	Sodium	ppm	ASTM D5185m		0		
	Boron	ppm	ASTM D5185m		6		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		65		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		792		
	Calcium	ppm	ASTM D5185m		1229		
	Phosphorus	ppm	ASTM D5185m		952		
	Zinc	ppm	ASTM D5185m		1116		
	Sulfur	ppm	ASTM D5185m		3065		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8		
	Base Number (BN)	mg KOH/g	ASTM D2896		9.08		
	Visc @ 100°C	cSt	ASTM D445		12.6		





Certificate L2367

Laboratory Sample No.

: KFS0003993 Lab Number : 06155262 Unique Number: 10990685 Test Package : MOB 2

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

Received : 19 Apr 2024 **Tested** Diagnosed

: 22 Apr 2024 : 22 Apr 2024 - Wes Davis

HARNESS LLC 855 N JAMES CAMPBELL BLVD COLUMBIA, TN

US 38401

Contact: BEN HARNESS ben@slectharness.com T: (615)733-4480

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)