

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

**NORMAL NORMAL ABNORMAL** 

Machine Id

56							
Component Diesel Engine							
Fluid							
{not provided} ( QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil is near the end of it's useful service life, recommend schedule an oil change. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		TLY0002193		
	Sample Date		Client Info		05 Feb 2024		
	Machine Age	mls	Client Info		178621		
	Oil Age	mls	Client Info		0		
	Filter Age	mls	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	69		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	1		
	Nickel	ppm	ASTM D5185m	>4	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>20	4		
	Lead	ppm	ASTM D5185m	>40	9		
	Copper	ppm	ASTM D5185m	>330	5		
	Tin	ppm	ASTM D5185m	>15	2		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	nnm	ASTM D5185m	- 25	9		
	Potassium	ppm	ASTM D5165III		9 5		
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	ppm %	ASTM D3163111		1.1		
	Water	70	WC Method		NEG		
	Glycol		WC Method	<i>&gt;</i> 0.2	NEG		
	Soot %	%	*ASTM D7844	<b>\3</b>	0.6		
	Nitration	Abs/cm	*ASTM D7624	>20	13.8		
	Sulfation	Abs/.1mm	*ASTM D7415		27.0		
	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		
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG		
ELUID CONDITION	O a alta ana		AOTM DE405		40		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		16		
The BN level is low. The condition of the oil is acceptable for the time	Boron Barium	ppm	ASTM D5185m ASTM D5185m		19		
in service.		ppm			0 56		
	Molybdenum	ppm	ASTM D5185m ASTM D5185m		56 1		
	Manganese	ppm	ASTM D5185m		1 634		
	Magnesium Calcium	ppm	ASTM D5165III		1707		
	Phosphorus	ppm	ASTM D5185m		860		
	Zinc	ppm	ASTM D5185m		1037		
	Sulfur	ppm	ASTM D5185m		2504		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	29.2		
	Base Number (BN)		ASTM D2896	7 2 3	△ 3.5		
	Visc @ 100°C	cSt	ASTM D445		11.6		
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Laboratory Sample No.

Lab Number : 06103555

Unique Number: 10901785

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TLY0002193 Received : 28 Feb 2024 : 04 Mar 2024 **Tested** : 04 Mar 2024 - Jonathan Hester Diagnosed

Test Package : CONST ( Additional Tests: FuelDilution, PercentFuel, TBN ) 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)

**COCKEYS ENTERPRISES** 

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