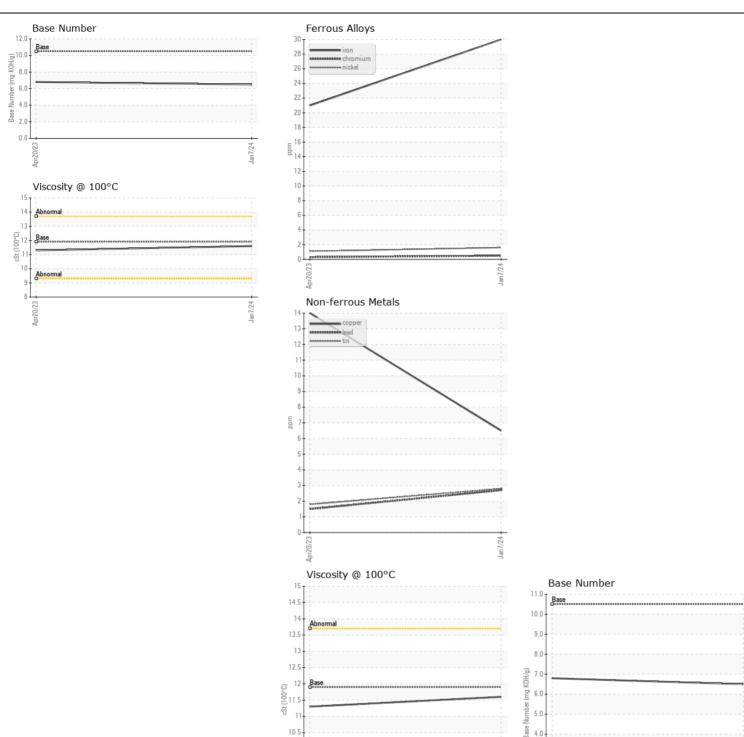


WEAR CONTAMINATION **FLUID CONDITION** NORMAL **NORMAL NORMAL**

Machine Id **73**

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		TLY0001848	TLY0001599	
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Date		Client Info		07 Jan 2024	20 Apr 2023	
	Machine Age	mls	Client Info		82096	55955	
	Oil Age	mls	Client Info		0	0	
	Filter Age	mls	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	NORMAL	
VEAR	Iron	ppm	ASTM D5185m	>100	30	21	
	Chromium	ppm	ASTM D5185m	>20	<1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		2	1	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	>3	<1	0	
	Aluminum	ppm	ASTM D5185m	>20	3	2	
	Lead	ppm	ASTM D5185m	>40	3	2	
	Copper	ppm	ASTM D5185m	>330	6	14	
	Tin	ppm	ASTM D5185m	>15	3	2	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	7	
ONTAMINATION	Potassium	ppm	ASTM D5185m		7	9	
There is no indication of any contamination in the oil.	Fuel	le le	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.5	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	11.7	10.3	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8	21.8	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		3	0	
	Boron	ppm	ASTM D5185m		13	14	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		49	48	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		588	621	
	Calcium	ppm	ASTM D5185m		1683	1513	
	Phosphorus	ppm	ASTM D5185m		798	762	
	Zinc	ppm	ASTM D5185m		1037	974	
	Sulfur	ppm	ASTM D5185m		2720	2685	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	22.4	21.2	
	Base Number (BN)	mg KOH/g	ASTM D2896	10.5	6.5	6.8	
	Visc @ 100°C	cSt	ASTM D445	11 9	11.6	11.3	







Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Unique Number : 10820615

: TLY0001848 : 06054666

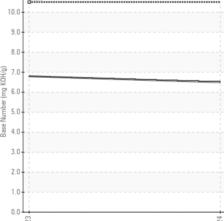
Recieved Diagnosed

: 08 Jan 2024 : 09 Jan 2024 Diagnostician : Wes Davis

Test Package : CONST (Additional Tests: 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)



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