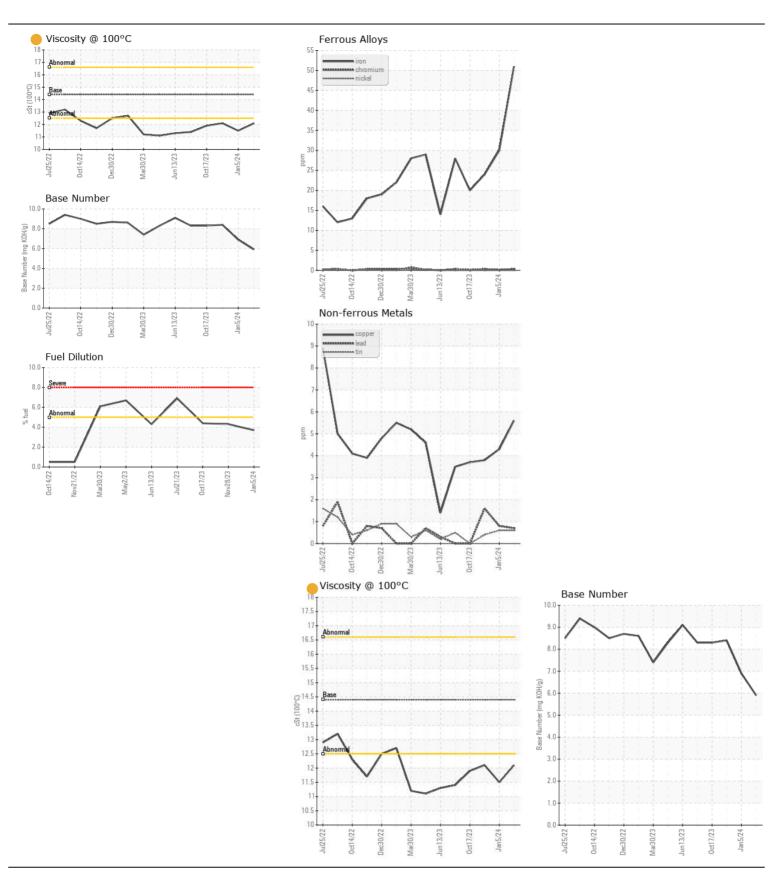
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ATTENTION

Machine Id **15297** 

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0815959	WC0815964	WC0885652
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		13 Feb 2024	05 Jan 2024	28 Nov 202
	Machine Age	mls	Client Info		400642	378888	356887
	Oil Age	mls	Client Info		0	0	21269
	Filter Age	mls	Client Info		0	0	21269
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	ABNORMAL	MARGINA
WEAR	Iron	ppm	ASTM D5185m	>100	51	30	24
VEAIL	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		4	3	2
	Lead	ppm	ASTM D5185m		- <1	<1	2
	Copper	ppm	ASTM D5185m		6	4	4
	Tin	ppm	ASTM D5185m		<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	0:::		AOTA DEADE	05			
CONTAMINATION	Silicon	ppm	ASTM D5185m		7	7	8
There is no indication of any contamination in the oil.	Potassium Fuel	ppm %	ASTM D5185m ASTM D3524	>5		△ 3.7	<u>4.3</u>
	Water	70	WC Method		<1.0 NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~3	0.3	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	7.9	7.9	8.4
	Sulfation	Abs/.1mm	*ASTM D7415		22.1	20.4	20.5
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
LUB CONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	2	2
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m		235	113	1
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		100	89	60
	Manganese	ppm	ASTM D5185m		<1 470	<1	<1
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		472 1443	734 1306	934
	Phosphorus	ppm	ASTM D5185m		1135	1070	921
	Zinc	ppm	ASTM D5165III		1328	1267	1223
	Sulfur	ppm	ASTM D5185m		3290	3204	3083
	Oxidation	ppm Abs/.1mm	*ASTM D7414	>25	3290 16.1	15.4	16.9
	Base Number (BN)			725	5.9	6.9	8.4
		THU INVITA	TO LIVE DEUGO		u.J	0.0	0.1







Certificate L2367

Laboratory Sample No.

Lab Number : 06103548

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0815959

Received **Tested** Unique Number: 10901778 Diagnosed Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

: 04 Mar 2024

: 28 Feb 2024

: 04 Mar 2024 - Jonathan Hester

WINSTON SALEM, NC Contact: Audrey Hopkins

Audrey.Hopkins@salemcorp.com T: (336)767-9642

SALEM NATIONALEASE CORPORATION

198 PARK PLAZA DRIVE

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)

F: x:

US 27105