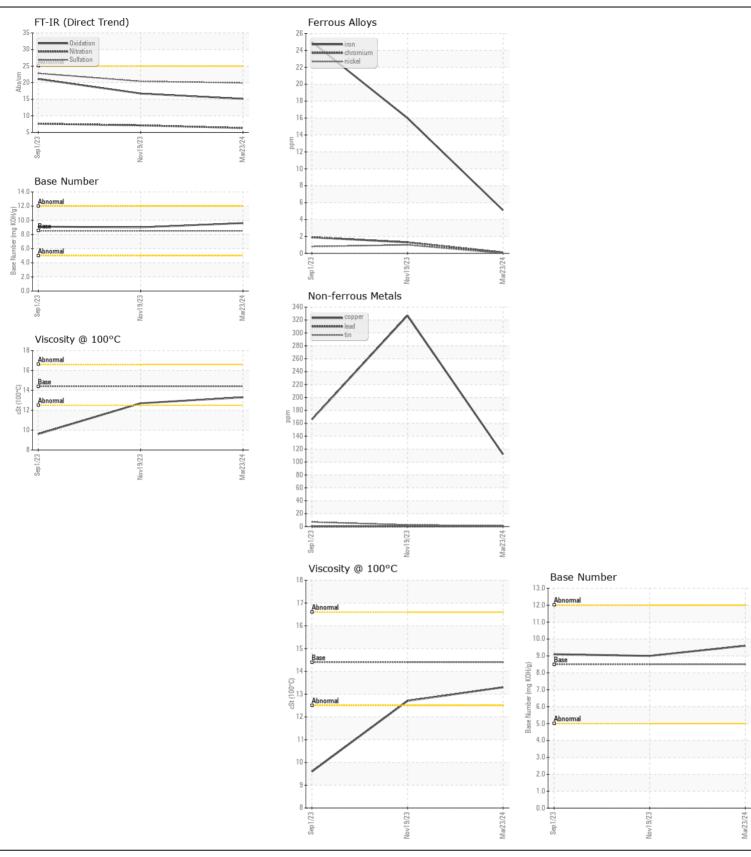
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id **23569**

Component
Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (GAL)					-,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		WC0912561	WC0874146	
	Sample Date		Client Info		23 Mar 2024	19 Nov 2023	01 Sep 2023
	Machine Age	mls	Client Info		69351	35146	0
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	5	16	25
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>20	<1	1	2
	Nickel	ppm	ASTM D5185m	>4	0	1	<1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	<1	<1	1
	Aluminum	ppm	ASTM D5185m	>20	3	9	32
	Lead	ppm	ASTM D5185m	>40	<1	<1	0
	Copper	ppm	ASTM D5185m	>330	112	327	166
	Tin	ppm	ASTM D5185m	>15	1	2	7
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	2	4	6
	Potassium	ppm	ASTM D5185m	>20	7	26	88
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	0.2
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	6.3	7.1	7.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	20.4	22.8
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	3	0	5
	Boron	ppm	ASTM D5185m	250	1	4	38
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	10	0	1	0
	Molybdenum	ppm	ASTM D5185m	100	61	60	43
	Manganese	ppm	ASTM D5185m		<1	1	4
	Magnesium	ppm	ASTM D5185m		969	912	576
	Calcium	ppm	ASTM D5185m	3000	1049	1165	1681
	Phosphorus	ppm	ASTM D5185m		1079	960	762
	Zinc	ppm	ASTM D5185m		1235	1167	950
	Sulfur	ppm	ASTM D5185m		3539	2939	2298
	Oxidation	Abs/.1mm	*ASTM D7414		15.1	16.7	21.1
	Base Number (BN)		ASTM D2896		9.6	9.0	9.1
	Visc @ 100°C	cSt	ASTM D445	14.4	13.3	12.7	<u> </u>







Certificate L2367

Laboratory Sample No.

: WC0912561 Lab Number : 06153675 Unique Number: 10983753 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Apr 2024 **Tested** : 19 Apr 2024

Diagnosed : 19 Apr 2024 - Wes Davis

198 PARK PLAZA DRIVE WINSTON SALEM, NC US 27105

SALEM NATIONALEASE CORPORATION

Contact: Audrey Hopkins Audrey.Hopkins@salemcorp.com

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:

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