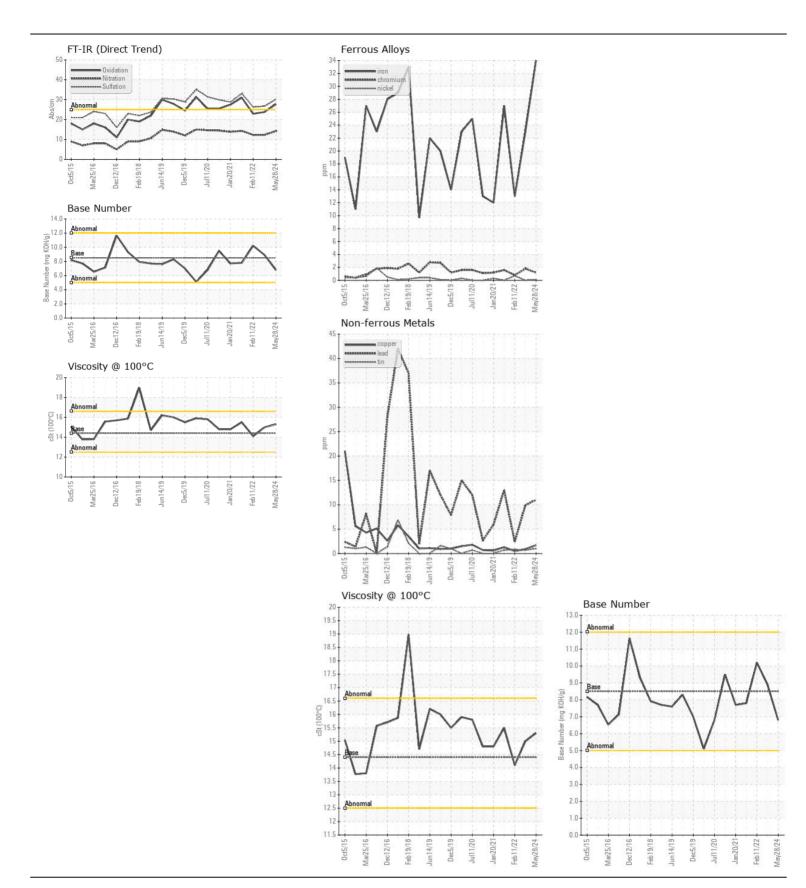
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id 42235

Component
Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (45 QTS)					.,		
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		WC0939009	WC0711262	WC0634746
	Sample Date		Client Info		28 May 2024	31 May 2023	11 Feb 2022
	Machine Age	mls	Client Info		455391	424695	369609
	Oil Age	mls	Client Info		0	0	25000
	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	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	34	23	13
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	1	2	<1
	Nickel	ppm	ASTM D5185m	>4	<1	0	<1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m	>20	2	1	1
	Lead	ppm	ASTM D5185m	>40	11	10	2
	Copper	ppm	ASTM D5185m	>330	2	<1	<1
	Tin	ppm	ASTM D5185m	>15	1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	8	7
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	5	1	0
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.6	0.4	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	14.2	12.3	12.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	30.2	26.7	26.3
	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
<u></u>	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	3	2	1
	Boron	ppm	ASTM D5185m	250	61	42	107
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	0	0
	Molybdenum	ppm	ASTM D5185m	100	64	63	88
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	907	908	827
	Calcium	ppm	ASTM D5185m	3000	1874	1859	1649
	Phosphorus	ppm	ASTM D5185m	1150	1367	1294	1249
	Zinc	ppm	ASTM D5185m	1350	1659	1571	1393
	Sulfur	ppm	ASTM D5185m	4250	4252	4064	2939
	Oxidation	Abs/.1mm	*ASTM D7414	>25	27.7	23.8	22.9
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.8	8.9	10.2
	Visc @ 100°C	cSt	ASTM D445	144	15.3	15.0	14.1







Certificate L2367

Laboratory Sample No.

Lab Number : 06217528 Unique Number : 11090392 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Jun 2024 : WC0939009 **Tested**

: 25 Jun 2024 Diagnosed : 25 Jun 2024 - Sean Felton

SALEM NATIONALEASE CORPORATION

198 PARK PLAZA DRIVE WINSTON SALEM, NC

US 27105 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)

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