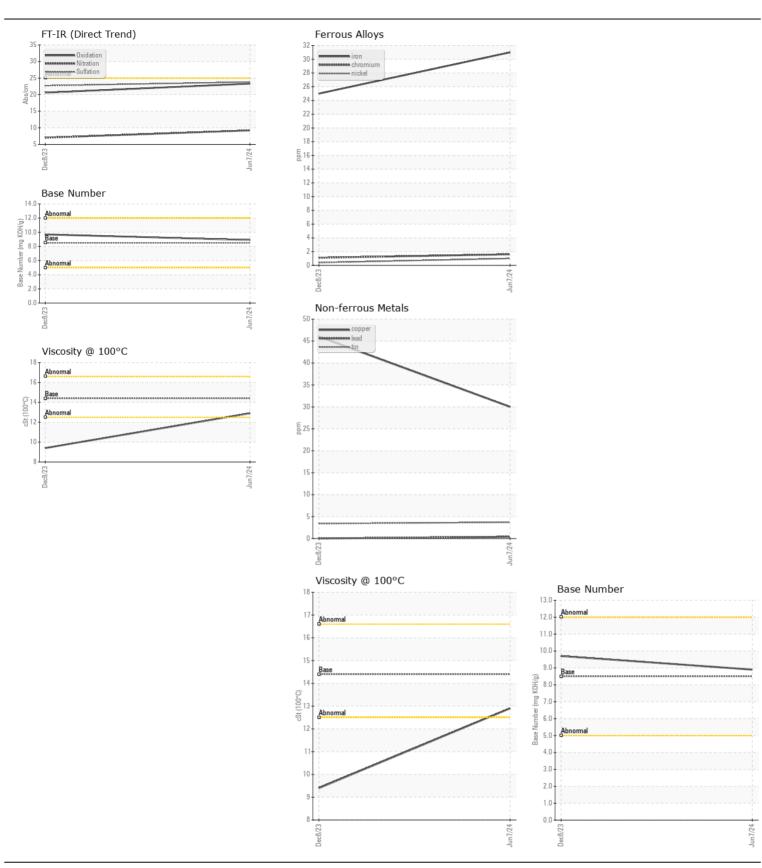
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id **43411**

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0875931	WC0875692	
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 Date		Client Info		07 Jun 2024	08 Dec 2023	
	Machine Age	mls	Client Info		25466	0	
	Oil Age	mls	Client Info		60000	0	
	Filter Age	mls	Client Info		60000	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ATTENTION	
WEAR	Iron	ppm	ASTM D5185m	>100	31	25	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>20	2	1	
	Nickel	ppm	ASTM D5185m	>4	1	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	<1	0	
	Aluminum	ppm	ASTM D5185m	>20	14	6	
	Lead	ppm	ASTM D5185m		<1	0	
	Copper	ppm	ASTM D5185m	>330	30	46	
	Tin	ppm	ASTM D5185m	>15	4	3	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	nnm	ASTM D5185m	. 25	6	9	
CONTAMINATION	Potassium	ppm	ASTM D5185m		23	8	
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Fuel	ppm	WC Method	>5	<1.0	0.4	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	>0.2	NEG	NEG	
	Soot %	%	*ASTM D7844	~3	0.5	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	9.2	7.0	
	Sulfation	Abs/.1mm	*ASTM D7415		23.8	22.7	
	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		*Visual	>0.2	NEG	NEG	
FLUID CONDITION The DN years indicates that there is suitable allysinity remaining in the	Sodium	ppm	ASTM D5185m	>158	3	7	
	Boron	ppm	ASTM D5185m	250	34	50	
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	<1	<1	
	Molybdenum	ppm	ASTM D5185m	100	43	40	
	Manganese	ppm	ASTM D5185m		2	9	
	Magnesium	ppm	ASTM D5185m	450	491	506	
	Calcium	ppm	ASTM D5185m	3000	1677	1627	
	Phosphorus	ppm	ASTM D5185m	1150	791	745	
	Zinc	ppm	ASTM D5185m	1350	920	882	
	Sulfur	ppm	ASTM D5185m	4250	2591	2358	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	23.3	20.6	
	D 11 1 (D1)	I/OII/-	ACTM DOOCC	0.5	0.0	9.7	
	Base Number (BN)	mg KOH/g	ASTIVI D2896	0.0	8.9	9.7	







Certificate L2367

Laboratory Sample No.

Lab Number : 06213026 Unique Number : 11085890 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0875931 Received : 17 Jun 2024 **Tested**

: 19 Jun 2024 Diagnosed : 19 Jun 2024 - Wes Davis

SALEM NATIONALEASE CORPORATION

198 PARK PLAZA DRIVE WINSTON SALEM, NC

US 27105 Contact: Audrey Hopkins

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

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: