WEAR CONTAMINATION FLUID CONDITION

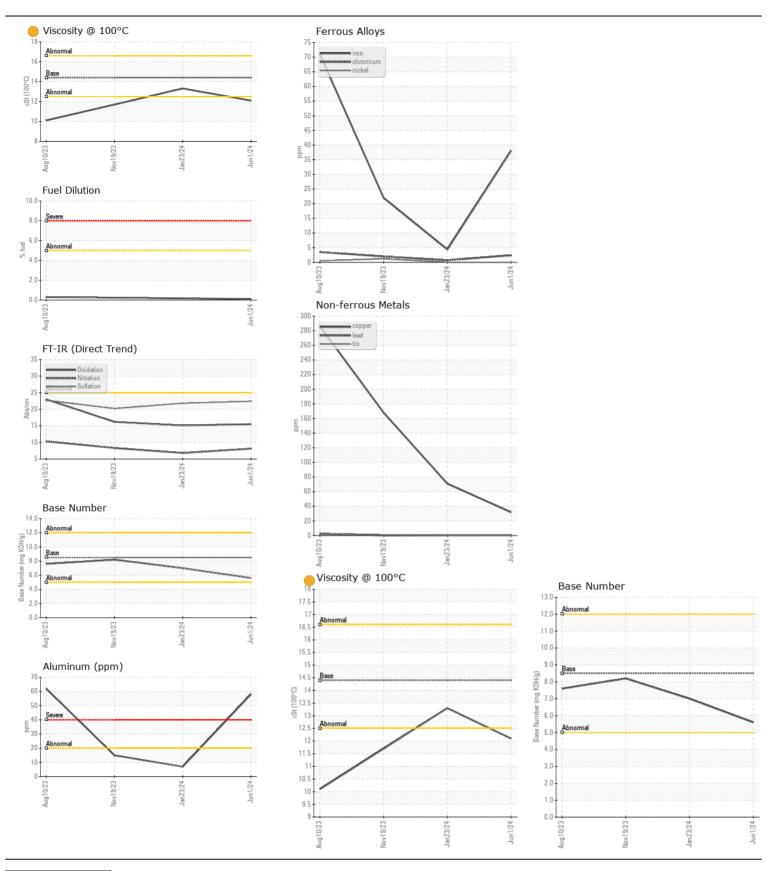
NORMAL NORMAL ATTENTION

Machine Id

21606

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		WC0946133	WC0847828	WC0871989
	Sample Date		Client Info		01 Jun 2024	23 Jan 2024	19 Nov 2023
	Machine Age	mls	Client Info		98508	63167	50387
	Oil Age	mls	Client Info		36000	12780	20000
	Filter Age	mls	Client Info		36000	12780	20000
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	38	4	22
	Chromium	ppm	ASTM D5185m		2	<1	2
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	<1	<1
	Aluminum	ppm	ASTM D5185m		58	7	15
	Lead	ppm	ASTM D5185m	>40	<1	<1	0
	Copper	ppm	ASTM D5185m	>330	32	71	168
	Tin	ppm	ASTM D5185m	>15	0	<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	Silicon	ppm	ASTM D5185m	>25	7	3	4
	Potassium	ppm	ASTM D5185m		144	7	29
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		0.1	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1.1	0.5	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	8.1	6.8	8.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	21.8	20.2
	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	>216	3	0	2
	Boron	ppm	ASTM D5185m	250	114	322	9
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	135	81	62
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m	450	433	465	817
	Calcium	ppm	ASTM D5185m	3000	1528	1300	1144
	Phosphorus	ppm	ASTM D5185m	1150	966	962	912
	Zinc	ppm	ASTM D5185m		1196	1208	1139
	Sulfur	ppm	ASTM D5185m	4250	2913	2825	2515
	Oxidation	Abs/.1mm	*ASTM D7414		15.5	15.1	16.2
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.6	7.0	8.2
	Visc @ 100°C	cSt	ASTM D445	14.4	12.1	13.3	11.7







Certificate L2367

Laboratory Sample No.

: WC0946133 Lab Number : 06231074

Unique Number: 11114567

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Jul 2024 **Tested** : 11 Jul 2024

: 11 Jul 2024 - Sean Felton Diagnosed Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

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. SALEM NATIONALEASE CORPORATION 198 PARK PLAZA DRIVE

WINSTON SALEM, NC US 27105

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

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: x: