WEAR CONTAMINATION FLUID CONDITION

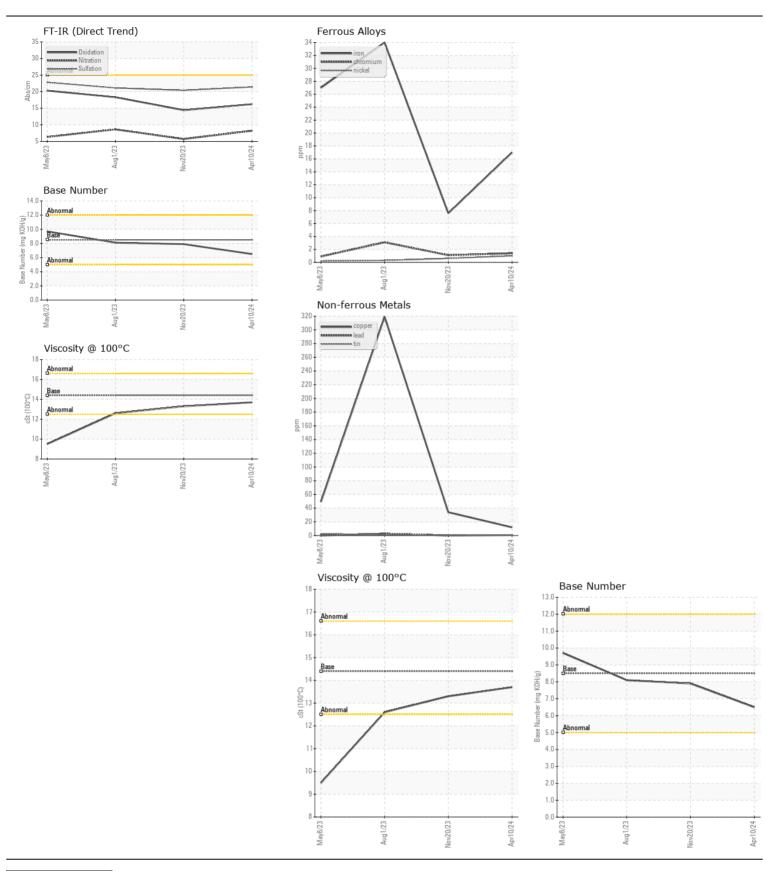
NORMAL NORMAL

Machine Id

38534

Component
Diesel Engine

RECOMMENDATION	Toot	LICA	Mother	Limit/Alas	Current	I lioto : : :4	Lliatamic
RECOMMENDATION  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.	Test	UOM	Method	Limit/Abn	WC0903112	History1	History2
	Sample Number Sample Date		Client Info		10 Apr 2024	WC0875725 20 Nov 2023	WC078771 01 Aug 202
	Machine Age	mls	Client Info		71443	47264	28649
	Oil Age	mls	Client Info		20000	0	0
	Filter Age	mls	Client Info		20000	0	0
	Oil Changed	11113	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status		Olicit iiilo		NORMAL	NORMAL	NORMAI
WEAR	Iron	ppm	ASTM D5185m	>100	17	8	34
WEAR	Chromium	ppm	ASTM D5185m		1	1	3
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		1	<1	<1
	Titanium	ppm	ASTM D5185m	7 7	4	0	<1
	Silver	ppm	ASTM D5185m	<b>\3</b>	0	<1	<1
	Aluminum	ppm	ASTM D5185m		8	8	87
	Lead	ppm	ASTM D5185m		<1	0	3
	Copper	ppm	ASTM D5185m		12	34	319
	Tin	ppm	ASTM D5185m		<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	4	4
SONTAIIINATION	Potassium	ppm	ASTM D5185m		13	15	190
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	<b>PP</b>	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.2	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	8.2	5.7	8.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	20.4	21.1
	Silt	scalar	*Visual	NONE	NONE	NONE	NON
	Debris	scalar	*Visual	NONE	NONE	NONE	NON
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	3	<1	4
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	250	212	327	6
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	69	79	60
	Manganese	ppm	ASTM D5185m		<1	<1	2
	Magnesium	ppm	ASTM D5185m		499	488	876
	Calcium	ppm	ASTM D5185m		1422	1267	1225
	Phosphorus	ppm	ASTM D5185m		1082	1042	894
	Zinc	ppm	ASTM D5185m		1161	1241	1113
	Sulfur	ppm	ASTM D5185m		3725	3230	2870
	0! -! - !!	A I / 4	* A OTA / D 7 / / /	0.5	400	4 4 4	400
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414 ASTM D2896		16.2 6.5	14.4 7.9	18.3 8.1







Certificate L2367

Report Id: SALWIN [WUSCAR] 06161137 (Generated: 04/29/2024 10:22:56) Rev: 1

Laboratory Sample No.

Lab Number : 06161137 Unique Number: 10996560

: WC0903112

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Apr 2024 **Tested** : 29 Apr 2024

Diagnosed : 29 Apr 2024 - Wes Davis

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.

T: (336)767-9642 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: x: