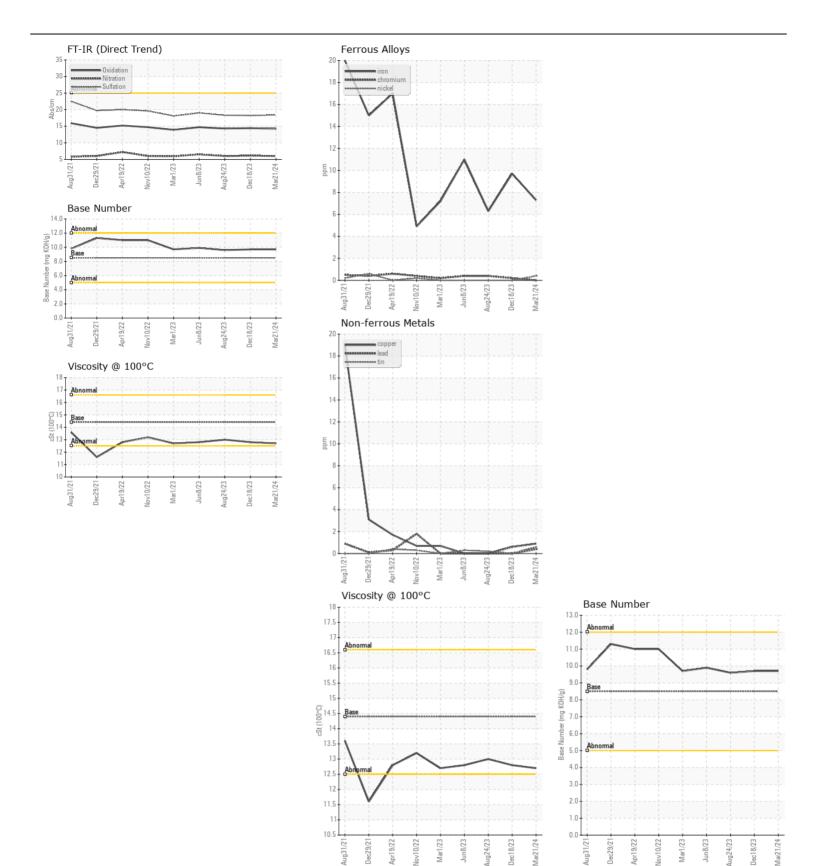
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id **14131**

Component Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (QTS)							
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	Current	History1	History2
	Sample Number	00	Client Info		WC0912572	WC0874171	WC0840864
	Sample Date		Client Info		21 Mar 2024	18 Dec 2023	24 Aug 2023
	Machine Age	mls	Client Info		0	30331	26025
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	7	10	6
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
	Nickel	ppm	ASTM D5185m	>4	<1	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		8	3	7
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		<1	<1	0
	Tin	ppm	ASTM D5185m	>15	<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
<u> </u>	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		5	5	4
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.	Potassium	ppm	ASTM D5185m		21	10	11
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.2	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	6.0	6.1	6.0
	Sulfation	Abs/.1mm	*ASTM D7415		18.4 NONE	18.2	18.3
	Silt	scalar	*Visual	NONE	NONE NONE	NONE NONE	NONE
	Debris Sand/Dirt	scalar	*Visual *Visual	NONE	NONE	NONE	NONE
	Appearance	scalar scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
ELUID CONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	0	<1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		2	<1	0
	Barium Molybdenum	ppm	ASTM D5185m		0 59	0	0
	Manganese	ppm	ASTM D5185m ASTM D5185m	100	58 <1	63 0	61 <1
	Magnesium	ppm	ASTM D5185m	450	951	1034	1006
	Calcium	ppm	ASTM D5185m		1054	1137	1006
		ppm	ASTM D5185m		1062	1106	1040
	Phosphorus			1.00	.002	1100	1010
	Phosphorus Zinc			1350	1234	1258	1270
	Zinc	ppm	ASTM D5185m		1234 3845	1258 3768	1270 3315
	Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	4250	3845	3768	3315
	Zinc	ppm ppm Abs/.1mm	ASTM D5185m ASTM D5185m *ASTM D7414	4250 >25			







Laboratory Sample No.

Lab Number : 06153671 Unique Number: 10983749

: WC0912572

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

: 19 Apr 2024 Diagnosed : 19 Apr 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 F: x:

Test Package : FLEET Certificate L2367

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)

Report Id: SALWIN [WUSCAR] 06153671 (Generated: 04/20/2024 10:17:59) Rev: 1