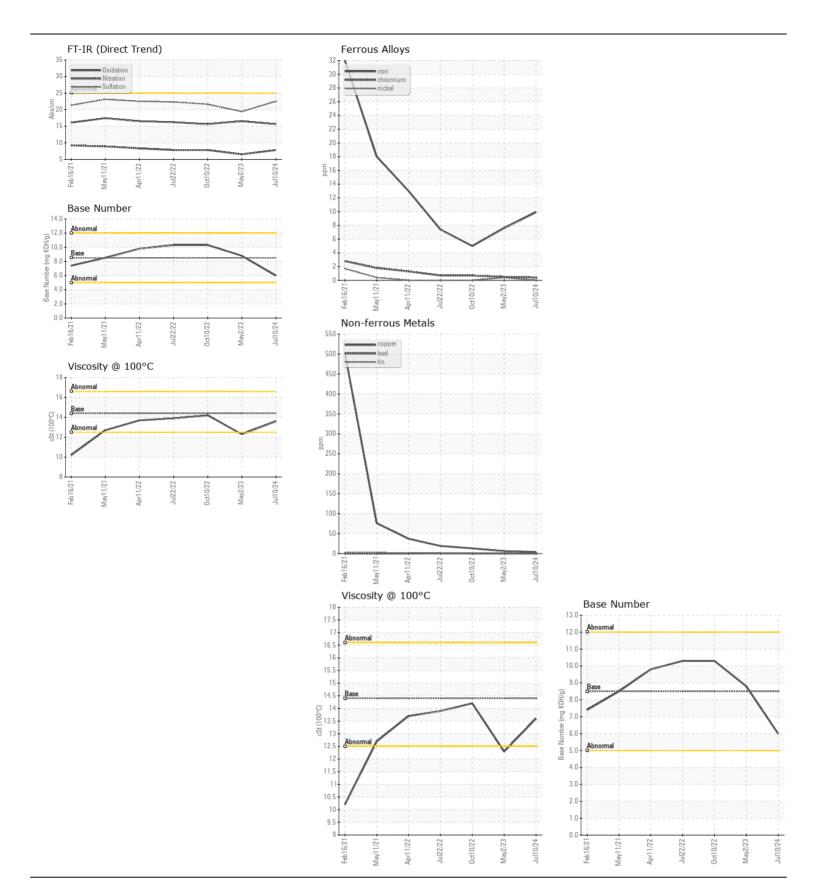
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id **14578**

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (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	OCIVI	Client Info	LIIIIII/ADII	WC0945795	WC0787493	WC0696572
	Sample Date		Client Info		10 Jul 2024	02 May 2023	10 Oct 2022
	Machine Age	mls	Client Info		265236	194845	142602
	Oil Age	mls	Client Info		60000	0	0
	Filter Age	mls	Client Info		60000	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	10	8	5
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>4	0	<1	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>20	4	3	4
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		4	6	13
	Tin	ppm	ASTM D5185m	>15	0	<1	1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	5	3
There is no indication of any contention in the cit	Potassium	ppm	ASTM D5185m	>20	4	4	5
There is no indication of any contamination in the oil.	Fuel		WC Method		<1.0	0.2	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.6	0.4	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	7.8	6.5	7.8
	Sulfation	Abs/.1mm	*ASTM D7415		22.5	19.4	21.6
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE NORML	NONE NORML	NONE NORML
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
	Linuisinea Water		Visuai				INLO
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2	2	0
	Boron	ppm	ASTM D5185m	250	188	102	0
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	84	66	64
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		434	652	903
	Calcium	ppm	ASTM D5185m		1340	1514	1101
	Phosphorus	ppm	ASTM D5185m		901	828	949
	Zinc	ppm	ASTM D5185m		1175	1040	1177
	Sulfur	ppm	ASTM D5185m		2717	3143	3361
	Oxidation	Abs/.1mm	*ASTM D7414		15.6	16.5	15.6
	Base Number (BN)				6.0	8.8	10.3
	Visc @ 100°C	cSt	ASTM D445	14.4	13.6	12.3	14.2







Certificate L2367

Laboratory Sample No.

: WC0945795 Lab Number : 06241218 Unique Number : 11130052 Test Package : FLEET

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

: 19 Jul 2024 Diagnosed : 19 Jul 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)

Contact/Location: Audrey Hopkins - SALWIN

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