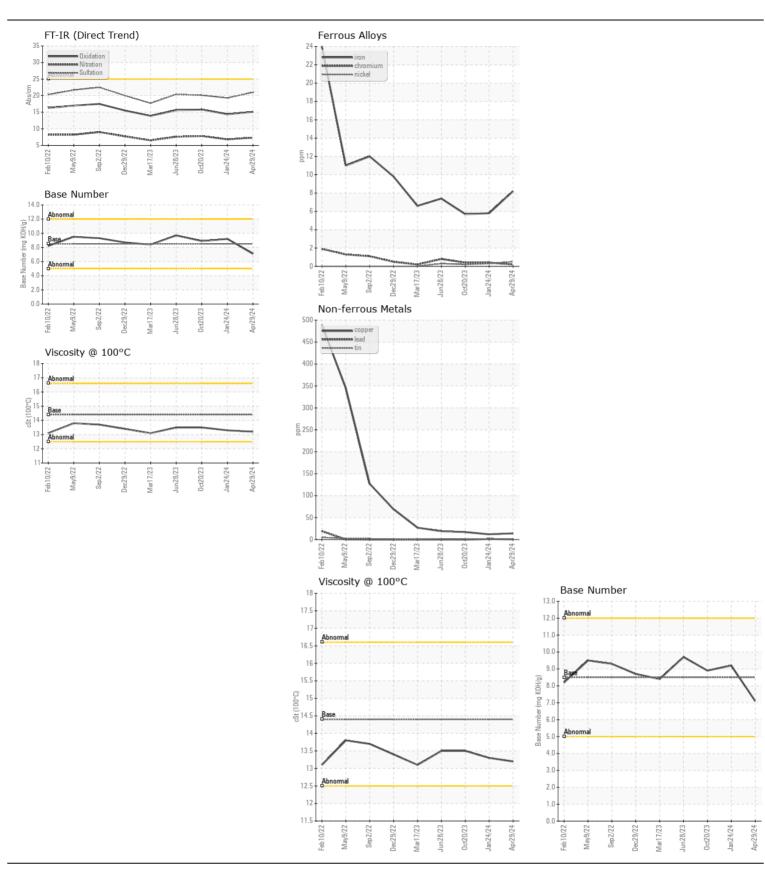
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id **14001**

Component Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	OCIVI	Client Info	LIIIIII/ADII	WC0928961	,	WC0841861
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		29 Apr 2024	24 Jan 2024	20 Oct 2023
	Machine Age	mls	Client Info		184443	162639	145928
	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	8	6	6
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	<1
	Aluminum	ppm	ASTM D5185m	>20	5	4	3
	Lead	ppm	ASTM D5185m	>40	<1	1	0
	Copper	ppm	ASTM D5185m		14	12	17
	Tin	ppm	ASTM D5185m	>15	1	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	4	4
	Potassium	ppm	ASTM D5185m	>20	3	5	5
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.3	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	7.3	6.8	7.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	19.3	20.1
	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	>158	2	2	0
	Boron	ppm	ASTM D5185m	250	225	6	4
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		81	65	60
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	563	961	941
	Calcium	ppm	ASTM D5185m		1301	1066	1028
	Phosphorus	ppm	ASTM D5185m	1150	1016	1080	992
	Zinc	ppm	ASTM D5185m	1350	1283	1284	1238
	Sulfur	ppm	ASTM D5185m	4250	3571	3138	2907
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	14.4	15.8
	Base Number (BN)	mg KOH/g			7.1	9.2	8.9
	Visc @ 100°C	cSt	ASTM D445	14.4	13.2	13.3	13.5







Certificate L2367

Laboratory Sample No.

Lab Number : 06190105 Unique Number : 11046857

Test Package : FLEET

: WC0928961

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

Diagnosed

: 23 May 2024 : 28 May 2024 : 28 May 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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