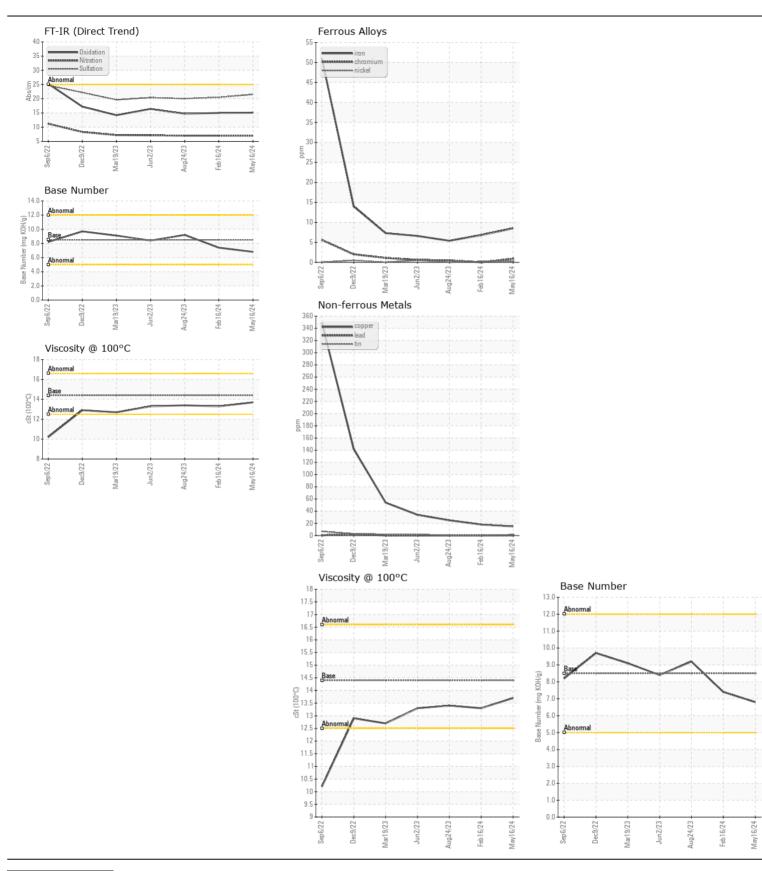
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id **32003** 

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	2	WC0883157	WC0883141	WC0796093
	Sample Date		Client Info		16 May 2024	16 Feb 2024	24 Aug 2023
	Machine Age	mls	Client Info		130542	116674	87984
	Oil Age	mls	Client Info		13868	116674	13000
	Filter Age	mls	Client Info		13868	25000	13000
	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	7	5
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
	Nickel	ppm	ASTM D5185m	>4	<1	<1	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	5	3	3
	Lead	ppm	ASTM D5185m	>40	<1	0	0
	Copper	ppm	ASTM D5185m	>330	15	18	25
	Tin	ppm	ASTM D5185m	>15	1	0	0
	Vanadium	ppm	ASTM D5185m		<1	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	2
There is no indication of any contamination in the oil	Potassium	ppm	ASTM D5185m	>20	4	2	6
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	0.4	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	7.0	7.0	7.0
	Sulfation	Abs/.1mm	*ASTM D7415		21.5	20.5	20.0
	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
<u></u>	Emulsified Water	Scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	<1	<1	<1
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		276	147	0
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	85	78	61
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		456	768	962
	Calcium	ppm	ASTM D5185m		1305	1455	1056
	Phosphorus	ppm	ASTM D5185m		953	1216	1009
	Zinc	ppm	ASTM D5185m		1242	1486	1253
	Sulfur	ppm	ASTM D5185m		3206	3732	3707
	Oxidation	Abs/.1mm	*ASTM D7414		15.1	15.0	14.7
	Base Number (BN)				6.8	7.4	9.2
	Visc @ 100°C	cSt	ASTM D445	14.4	13.7	13.3	13.4







Certificate L2367

Laboratory Sample No.

Test Package : FLEET

: WC0883157 Lab Number : 06188527 Unique Number : 11045279

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

: 22 May 2024 **Tested** : 24 May 2024 Diagnosed

: 24 May 2024 - Wes Davis

SALEM NATIONALEASE CORPORATION 198 PARK PLAZA DRIVE WINSTON SALEM, NC

US 27105

F: x:

Page 2 of 2

Contact: Audrey Hopkins Audrey.Hopkins@salemcorp.com

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (336)767-9642

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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