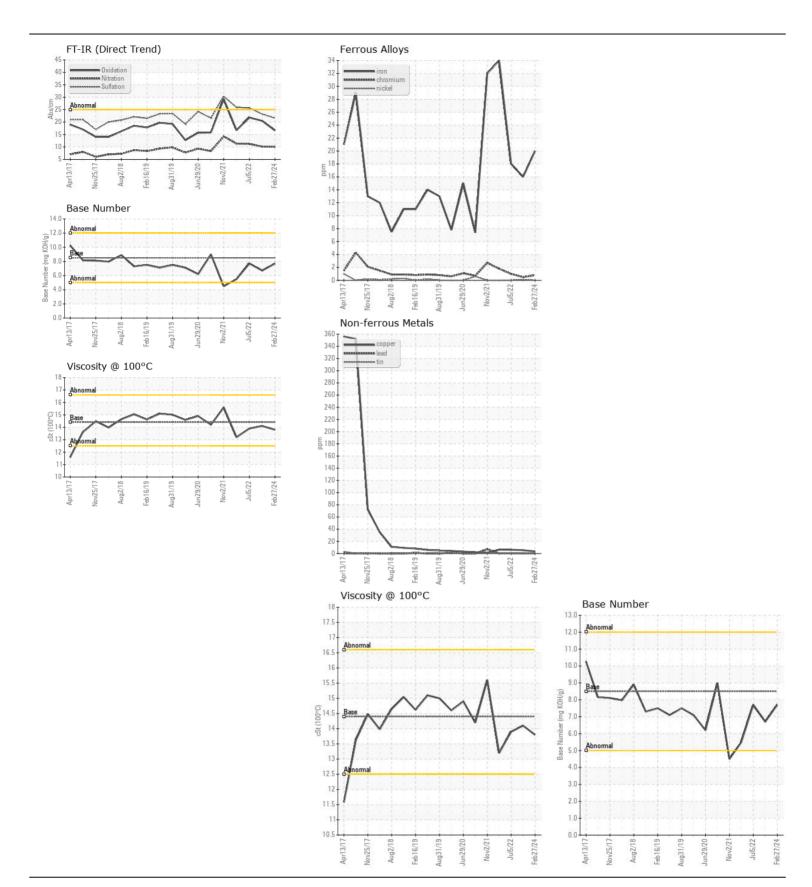
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Machine Id **41198**

Component
Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	UOIVI	Client Info	LIIIII/ADII	WC0912518		WC0649867
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		27 Feb 2024	05 Jan 2024	05 Jul 2022
	Machine Age	mls	Client Info		363008	343414	316357
	Oil Age	mls	Client Info		0	15000	0
	Filter Age	mls	Client Info		0	15000	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	20	16	18
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	<1
	Silver	ppm	ASTM D5185m	>3	<1	0	<1
	Aluminum	ppm	ASTM D5185m	>20	7	7	6
	Lead	ppm	ASTM D5185m	>40	<1	<1	<1
	Copper	ppm	ASTM D5185m		4	5	6
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	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	4	6	5
	Potassium	ppm	ASTM D5185m		2	2	3
There is no indication of any contamination in the oil.	Fuel	le le	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	>3	0.8	0.8	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	10.0	10.1	11.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	23.2	25.7
	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	1	2	2
TESIS SONSTITION	Boron	ppm	ASTM D5185m		1	5	6
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		0	0	0
	Molybdenum	ppm	ASTM D5185m		64	58	65
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	1008	953	931
	Calcium	ppm	ASTM D5185m	3000	1179	1090	1129
	Phosphorus	ppm	ASTM D5185m	1150	1055	1071	1022
	Zinc	ppm	ASTM D5185m	1350	1276	1272	1278
	Sulfur	ppm	ASTM D5185m	4250	3704	2930	3135
	Oxidation	Abs/.1mm	*ASTM D7414		16.6	20.5	21.8
	Base Number (BN)				7.7	6.7	7.7
	Visc @ 100°C	cSt	ASTM D445	14.4	13.8	14.1	13.9







Certificate L2367

Report Id: SALWIN [WUSCAR] 06191536 (Generated: 05/29/2024 01:32:12) Rev: 1

Laboratory Sample No.

: WC0912518 Lab Number : 06191536 Unique Number : 11048288 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 May 2024 **Tested**

Diagnosed

: 29 May 2024 : 29 May 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

* - 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

F: x: