WEAR CONTAMINATION FLUID CONDITION

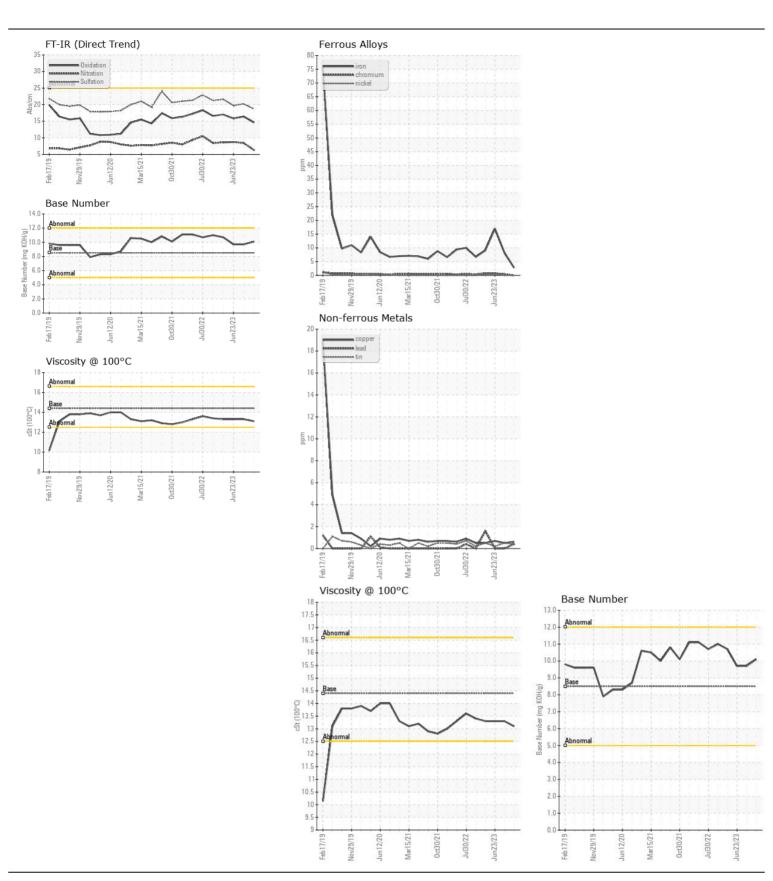
NORMAL NORMAL NORMAL

Machine Id

255488

Component
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		Client Info		WC0891669	WC0874088	WC0826589
	Sample Date		Client Info		22 Jan 2024	09 Dec 2023	23 Jun 2023
	Machine Age	mls	Client Info		0	283943	266246
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR			40714 05405	400			
WEAR	Iron	ppm	ASTM D5185m		3	8	17
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	<1	<1
	Nickel	ppm	ASTM D5185m	>4	0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		3	4	11
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		<1	<1	<1
	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	3	4	5
	Potassium	ppm	ASTM D5185m	>20	3	2	9
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	0.2	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	6.3	8.4	8.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	20.2	19.7
	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
ELLID CONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	<1	0
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		2	<1	0
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	1
	Molybdenum	ppm	ASTM D5185m	100	60	56	64
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		961	972	972
	Calcium	ppm	ASTM D5185m		1036	1098	1072
	Phosphorus	ppm	ASTM D5185m		1101	953	1047
	Zinc	ppm	ASTM D5185m		1242	1287	1217
	Sulfur	ppm	ASTM D5185m		3920	3137	3265
	Oxidation	Abs/.1mm	*ASTM D7414		14.6	16.4	15.8
	Base Number (BN)				10.1	9.7	9.7
	Visc @ 100°C	cSt	ASTM D445	14.4	13.1	13.3	13.3







Certificate L2367

Report Id: SALWIN [WUSCAR] 06153668 (Generated: 04/20/2024 10:17:44) Rev: 1

Laboratory Sample No.

Lab Number : 06153668 Unique Number: 10983746

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0891669 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

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. T: (336)767-9642

F: x: