

WEAR CONTAMINATION FLUID CONDITION

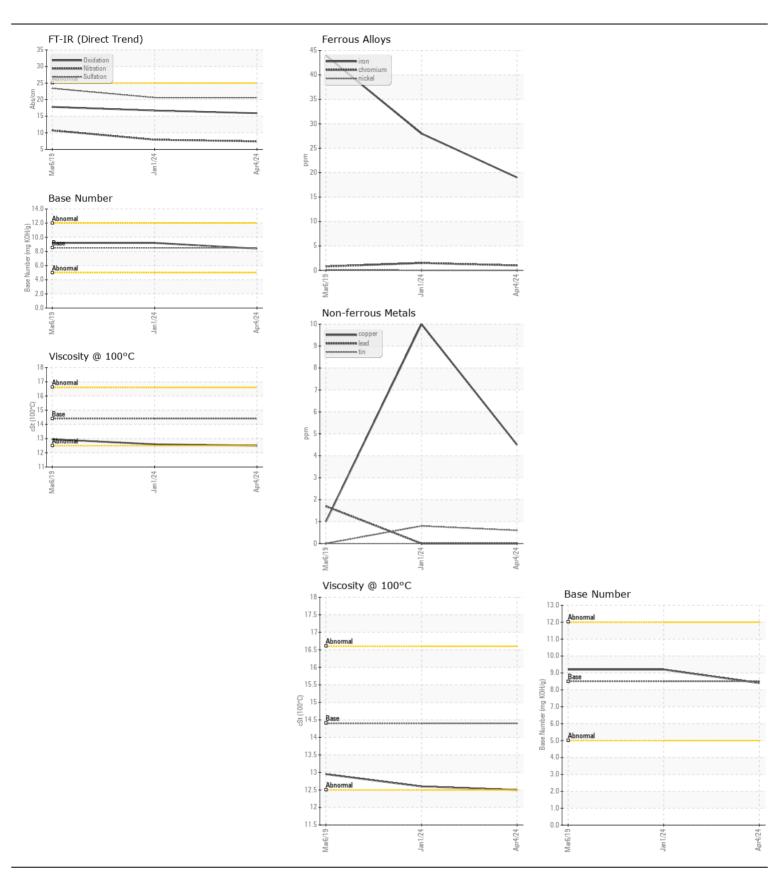
NORMAL NORMAL NORMAL

Machine Id

**7904** 

Component Diesel Engine

Fluid							
DIESEL ENGINE OIL SAE 15W40 ( QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	OOW	Client Info	LIIIIUAUII	WC0919689	WC0852333	WC0326274
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		04 Apr 2024	01 Jan 2024	06 Mar 2019
	Machine Age	mls	Client Info		04 Apr 2024 0	0	623528
	ū				0		
	Oil Age	mls	Client Info		0	0	30000
	Filter Age Oil Changed	mls	Client Info				30000 Changed
	0		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	19	28	44
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	1	2	<1
	Nickel	ppm	ASTM D5185m	>4	0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	13	18	2
	Lead	ppm	ASTM D5185m		0	0	2
	Copper	ppm	ASTM D5185m	>330	4	10	1
	Tin	ppm	ASTM D5185m		<1	<1	0
	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		8	11	5
Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	32	39	8
	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	0.3	0.4	2
	Nitration	Abs/cm	*ASTM D7624	>20	7.4	7.9	10.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	20.6	23.4
	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	3	<1	3
	Boron	ppm	ASTM D5185m		138	4	68
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		67	61	65
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	745	1026	380
	Calcium	ppm	ASTM D5185m		1128	1202	1882
	Phosphorus	ppm	ASTM D5185m		1074	1051	1009
	Zinc	ppm	ASTM D5185m		1204	1313	1180
	Sulfur	ppm	ASTM D5185m		3615	3251	2829
	Oxidation	Abs/.1mm	*ASTM D7414		15.9	16.7	17.8
	Base Number (BN)		ASTM D2896		8.4	9.2	9.2
	Visc @ 100°C	cSt	ASTM D445		12.5	12.6	12.95







Certificate L2367

Laboratory Sample No.

: WC0919689 Lab Number : 06153603 Unique Number : 10983681 Test Package : FLEET

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

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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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