

WEAR CONTAMINATION FLUID CONDITION

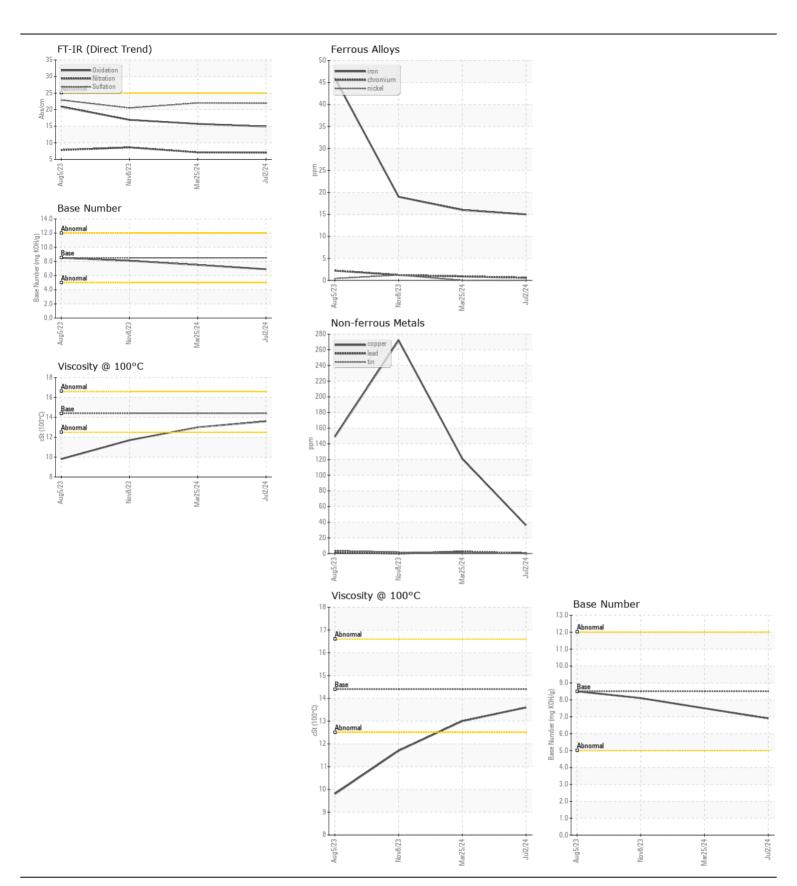
NORMAL NORMAL

Machine Id

21608

Component Diesel Engine

Diesel Engine DIESEL ENGINE OIL SAE 15W40 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0906513	WC0906496	WC0847786
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		02 Jul 2024	25 Mar 2024	08 Nov 2023
	Machine Age	mls	Client Info		56808	42489	17408
	Oil Age	mls	Client Info		2000	10630	17408
	Filter Age	mls	Client Info		2000	10630	17408
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	ATTENTION
WEAR	Iron	ppm	ASTM D5185m	>100	15	16	19
	Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m	>4	0	0	1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m	>20	8	9	16
	Lead	ppm	ASTM D5185m	>40	<1	2	0
	Copper	ppm	ASTM D5185m	>330	36	121	272
	Tin	ppm	ASTM D5185m	>15	0	<1	2
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	4	4
Elevated aluminum (Al) 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	12	19	39
	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	0.6	0.5	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	7.0	7.1	8.6
	Sulfation	Abs/.1mm	*ASTM D7415		21.9	22.0	20.5
	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	3
The DN regult indicates that there is quitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	250	272	273	10
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	100	91	81	63
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m		410	529	808
	Calcium	ppm	ASTM D5185m		1582	1457	1179
	Phosphorus	ppm	ASTM D5185m		1085	1005	913
	Zinc	ppm	ASTM D5185m		1337	1319	1100
	Sulfur	ppm	ASTM D5185m		3663	3605	2441
	Oxidation	Abs/.1mm	*ASTM D7414		14.9	15.7	16.9
	Base Number (BN)				6.9	7.5	8.1
	Visc @ 100°C	cSt	ASTM D445	14.4	13.6	13.0	11.7







Certificate L2367

Laboratory Sample No.

: WC0906513 Lab Number : 06231077 Unique Number : 11114570 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 : 08 Jul 2024 **Tested** : 10 Jul 2024

Diagnosed : 10 Jul 2024 - Wes Davis

SALEM NATIONALEASE CORPORATION

198 PARK PLAZA DRIVE WINSTON SALEM, NC

US 27105 Contact: Audrey Hopkins

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* - 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) T: (336)767-9642 F: x: