

WEAR CONTAMINATION FLUID CONDITION

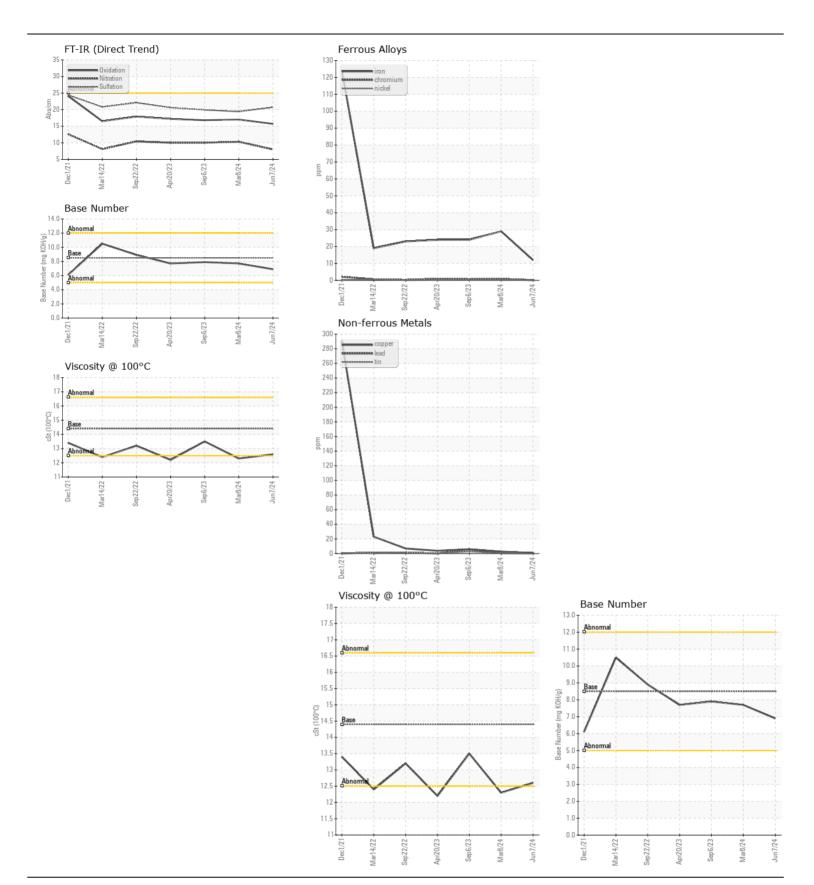
NORMAL NORMAL

Machine Id

8697

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0928942	WC0842191	WC084174
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		07 Jun 2024	08 Mar 2024	06 Sep 202
	Machine Age	mls	Client Info		37538	33936	27765
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	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	12	29	24
	Chromium	ppm	ASTM D5185m		- <u>-</u> <1	<1	<1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0	<1	<1
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		8	18	10
	Lead	ppm	ASTM D5185m		0	<1	6
	Copper	ppm	ASTM D5185m		<1	3	6
	Tin	ppm	ASTM D5185m		0	<1	3
	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	nnm	ASTM D5185m	> 25	5	7	15
CONTAMINATION	Potassium	ppm	ASTM D5185m		12	30	10
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.	Fuel	ppm	WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~3	0.3	0.5	0.4
	Nitration	Abs/cm		>20	8.0	10.3	10.0
	Sulfation	Abs/.1mm	*ASTM D7415		20.7	19.4	19.9
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
LUID CONDITION	Codium		ACTM DE10Em	. 150	4		10
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	2	16
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		291	3	16
	Barium	ppm	ASTM D5185m		0	<1	0
	Manganasa	ppm	ASTM D5185m	100	79	66	21
	Manganese	ppm	ASTM D5185m	1E0	<1 480	<1	
	Magnesium Calcium	ppm	ASTM D5185m			912	219 1964
		ppm	ASTM D5185m		1375	1103	
	Phosphorus	ppm	ASTM D5185m		1022	999	868
	Zinc	ppm	ASTM D5185m		1249	1187	1101
	Sulfur	ppm Aba/1mm	*ASTM D5185m		3702 15.7	3125 17.0	3134 16.8
	Oxidation Base Number (BN)	Abs/.1mm			6.9	7.7	7.9







Certificate L2367

Laboratory Sample No.

Unique Number : 11113028

: WC0928942 Lab Number : 06229535

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 : 05 Jul 2024 **Tested** : 09 Jul 2024

Diagnosed : 09 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: