

WEAR CONTAMINATION FLUID CONDITION

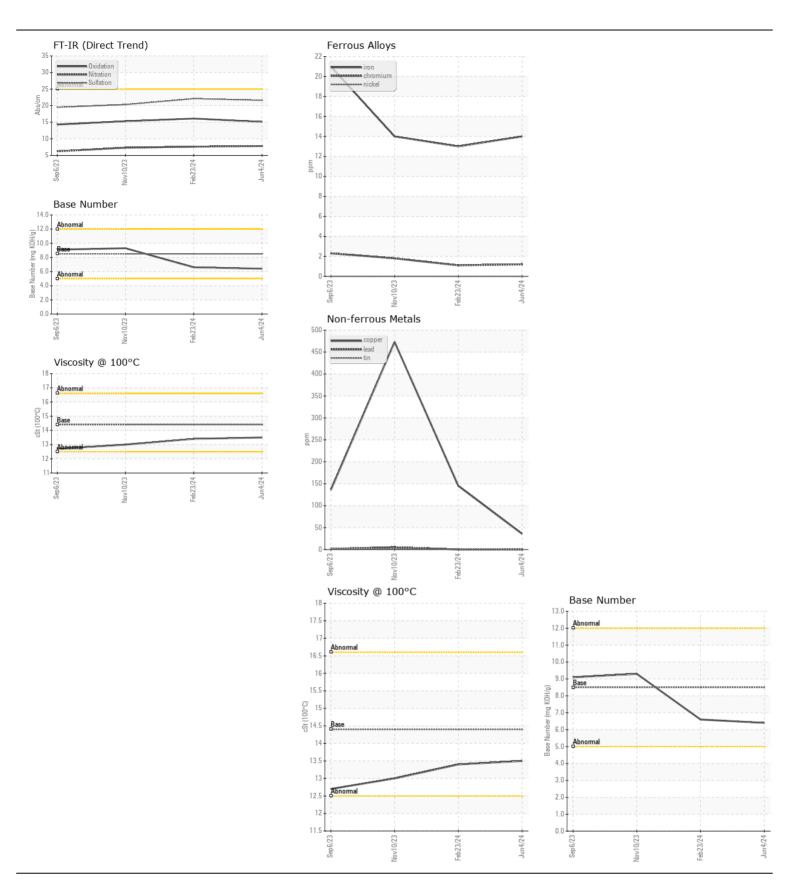
NORMAL NORMAL NORMAL

Machine Id

9738

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	OOW	Client Info	LIIIIUADII	WC0875916	,	WC0875798
	Sample Date		Client Info		04 Jun 2024	23 Feb 2024	10 Nov 2023
	Machine Age	mls	Client Info		100633	77019	53659
	Oil Age	mls	Client Info		20000	20000	0
	Filter Age	mls	Client Info		20000	20000	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	14	13	14
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	1	1	2
	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		3	0	<1
	Silver	ppm	ASTM D5185m		<1	<1	<1
	Aluminum	ppm	ASTM D5185m		7	10	19
	Lead	ppm	ASTM D5185m		0	0	5
	Copper	ppm	ASTM D5185m		36	145	473
	Tin	ppm	ASTM D5185m	>15	0	<1	1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	5	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	14	19	42
	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	0.5	0.5	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	7.8	7.6	7.3
	Sulfation	Abs/.1mm	*ASTM D7415		21.6	22.1	20.3
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML	NORML NORML	NORML NORML
	Emulsified Water		*Visual	>0.2	NORML NEG	NEG	NEG
<u></u>	Liliuisilleu watei	Scalai	Visuai	>0.2			INLG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2	1	<1
	Boron	ppm	ASTM D5185m	250	185	217	4
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	74	77	70
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		490	459	965
	Calcium	ppm	ASTM D5185m		1504	1225	1132
	Phosphorus	ppm	ASTM D5185m		962	969	915
	Zinc	ppm	ASTM D5185m		1171	1176	1208
	Sulfur	ppm	ASTM D5185m		3320	2611	2782
	Oxidation	Abs/.1mm	*ASTM D7414		15.1	16.1	15.3
	Base Number (BN) Visc @ 100°C	mg KUH/g	ASTM D2896 ASTM D445		6.4	6.6 13.4	9.3
	visc @ 100°C	UOL	ASTIVI D445	14.4	13.5	13.4	13.0







Certificate L2367

Laboratory Sample No.

Test Package : FLEET

: WC0875916 Lab Number : 06211131 Unique Number : 11083995

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Jun 2024 **Tested**

: 18 Jun 2024 Diagnosed : 18 Jun 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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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