

WEAR CONTAMINATION FLUID CONDITION

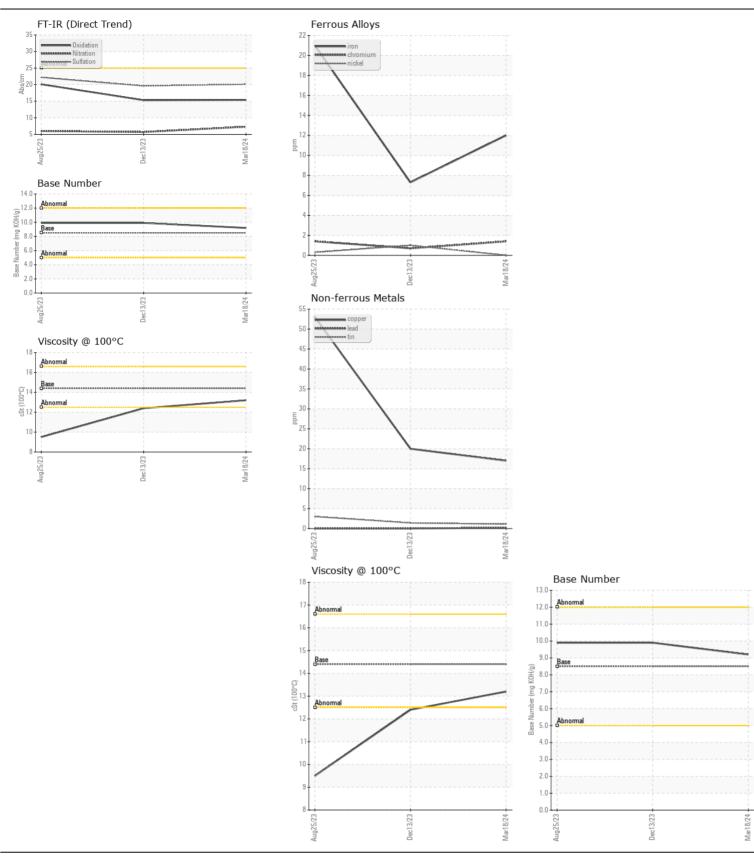
NORMAL NORMAL

Machine Id

9085

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		WC0912577	WC0874156	WC0840937
	Sample Date		Client Info		18 Mar 2024	13 Dec 2023	25 Aug 2023
	Machine Age	mls	Client Info		0	15109	7705
	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	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	12	7	21
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	1	<1	1
	Nickel	ppm	ASTM D5185m	>4	0	1	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	<1	<1	<1
	Aluminum	ppm	ASTM D5185m	>20	10	16	48
	Lead	ppm	ASTM D5185m	>40	<1	0	0
	Copper	ppm	ASTM D5185m		17	20	53
	Tin	ppm	ASTM D5185m	>15	1	1	3
	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	3	6
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	26	36	117
	Fuel		WC Method	>5	<1.0	<1.0	0.2
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	7.3	5.7	6.0
	Sulfation	Abs/.1mm	*ASTM D7415		20.1	19.6	22.2
	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	3	1	4
The DNI could be decided the table on the children all all all all and a second to the	Boron	ppm	ASTM D5185m	250	3	11	57
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	62	54	40
	Manganese	ppm	ASTM D5185m		1	<1	3
	Magnesium	ppm	ASTM D5185m		974	863	519
	Calcium	ppm	ASTM D5185m		1095	1126	1648
	Phosphorus	ppm	ASTM D5185m		1085	938	729
	Zinc	ppm	ASTM D5185m		1264	1183	891
	Sulfur	ppm	ASTM D5185m		3618	2971	2346
	Oxidation	Abs/.1mm	*ASTM D7414		15.4	15.3	20.1
	Base Number (BN)				9.2	9.9	9.9
	Visc @ 100°C	cSt	ASTM D445	14.4	13.2	12.4	<u>\$\text{\$\text{\$\text{\$}}}\$</u> 9.5







Certificate L2367

Laboratory Sample No.

: WC0912577 Lab Number : 06153626 Unique Number : 10983704 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 : 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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* - 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: