WEAR CONTAMINATION FLUID CONDITION

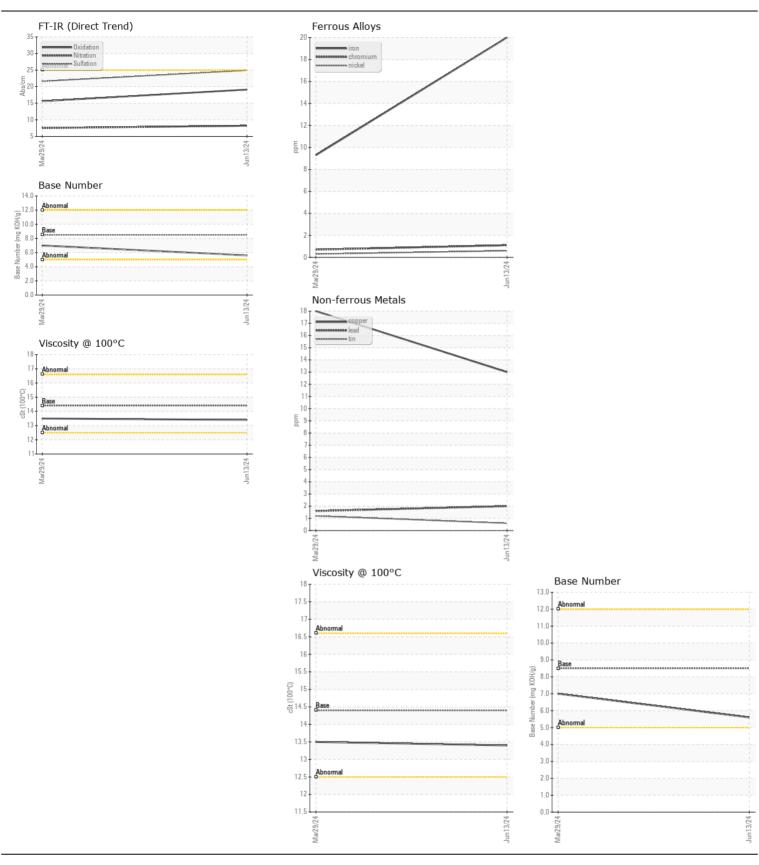
NORMAL NORMAL

Machine Id

20583

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	JOIVI	Client Info	LIIII(/AUII	WC0903073	WC0903170	
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		13 Jun 2024	29 Mar 2024	
	Machine Age	mls	Client Info		136718	100639	
	Oil Age	mls	Client Info		20000	60000	
	Filter Age	mls	Client Info		20000	60000	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
A/CAD			AOTM DEADE	400			
WEAR	Iron	ppm	ASTM D5185m		20	9	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1	<1	
	Nickel	ppm	ASTM D5185m	>4	<1	<1	
	Titanium	ppm	ASTM D5185m	0	1	2	
	Silver	ppm	ASTM D5185m		<1	0	
	Aluminum	ppm	ASTM D5185m		15	9	
	Lead	ppm	ASTM D5185m ASTM D5185m		2 13	2 18	
	Copper Tin	ppm	ASTM D5185m		13 <1	1	
	Vanadium	ppm	ASTM D5185m	>10	<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
<u></u>		Scalai	Visuai	INOINE	NONE	INOINL	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	10	7	
	Potassium	ppm	ASTM D5185m	>20	32	21	
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.	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.8	0.5	
	Nitration	Abs/cm	*ASTM D7624	>20	8.2	7.5	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.9	21.6	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2	3	
	Boron	ppm	ASTM D5185m		132	235	
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		<1	0	
	Molybdenum	ppm	ASTM D5185m	100	83	72	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m	450	426	432	
	Calcium	ppm	ASTM D5185m		1370	1468	
	Phosphorus	ppm	ASTM D5185m	1150	1021	909	
	Zinc	ppm	ASTM D5185m	1350	1187	1059	
	Sulfur	ppm	ASTM D5185m	4250	3200	3295	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	15.6	
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.6	7.0	
	Visc @ 100°C	cSt	ASTM D445	111	13.4	13.5	







Certificate L2367

Laboratory Sample No.

Lab Number : 06213027 Unique Number : 11085891

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0903073

Tested Test Package : FLEET

Received : 17 Jun 2024 Diagnosed

: 19 Jun 2024 : 19 Jun 2024 - Wes Davis

SALEM NATIONALEASE CORPORATION 198 PARK PLAZA DRIVE

WINSTON SALEM, NC US 27105

Contact: Audrey Hopkins Audrey.Hopkins@salemcorp.com T: (336)767-9642

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) F: x: