WEAR CONTAMINATION FLUID CONDITION

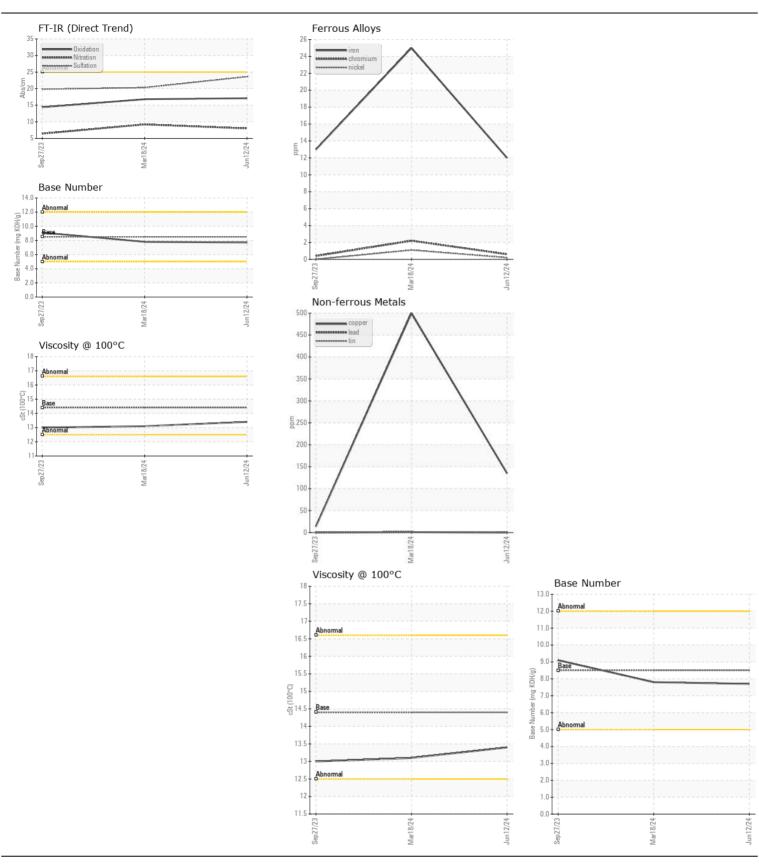
NORMAL NORMAL NORMAL

Machine Id

30624 Component

Component Diesel Engine

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		WC0936750	WC0916025	WC0838141
	Sample Date		Client Info		12 Jun 2024	18 Mar 2024	27 Sep 2023
	Machine Age	mls	Client Info		83039	67943	45169
	Oil Age	mls	Client Info		15096	0	0
	Filter Age	mls	Client Info		15096	0	0
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	12	25	13
WEAT	Chromium	ppm	ASTM D5185m		<1	2	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	1	0
	Titanium	ppm	ASTM D5185m	- 1	<1	<1	0
	Silver	ppm	ASTM D5185m	>3	<1	<1	0
	Aluminum	ppm	ASTM D5185m		7	6	4
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		135	<u></u> 500	14
	Tin	ppm	ASTM D5185m		<1	2	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	6	8	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	11	15	12
	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	0.4	0.5	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.0	9.2	6.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	20.3	19.8
	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
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	nnm	ASTM D5185m	- 1FO	2	0	3
PLUID CONDITION	Boron	ppm	ASTM D5185m		198	6	75
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		10	0	1	0
	Molybdenum	ppm	ASTM D5185m		104	65	69
	Manganese		ASTM D5185m	100	104	2	<1
	Magnesium	ppm	ASTM D5185m	450	638	940	811
	Calcium	ppm	ASTM D5185m		1461	1124	1184
	Phosphorus	ppm	ASTM D5185m		882	1041	1029
	Zinc		ASTM D5185m		1048	1227	1250
	Sulfur	ppm	ASTM D5185m		3103	3053	3193
	Oxidation	Abs/.1mm	*ASTM D3163111		17.1	16.8	14.4
	Base Number (BN)				7.7	7.8	9.1
	Visc @ 100°C	cSt	ASTM D2090		13.4	13.1	13.0
	V130 @ 100 O	COL	ACTIVI D440	17.4	13.4	10.1	10.0







Certificate L2367

Report Id: SALWIN [WUSCAR] 06212777 (Generated: 06/22/2024 21:07:10) Rev: 1

Laboratory Sample No.

Lab Number : 06212777

: WC0936750 Unique Number : 11085641 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jun 2024 **Tested** : 19 Jun 2024

Diagnosed : 19 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.

T: (336)767-9642 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: x: