WEAR CONTAMINATION FLUID CONDITION

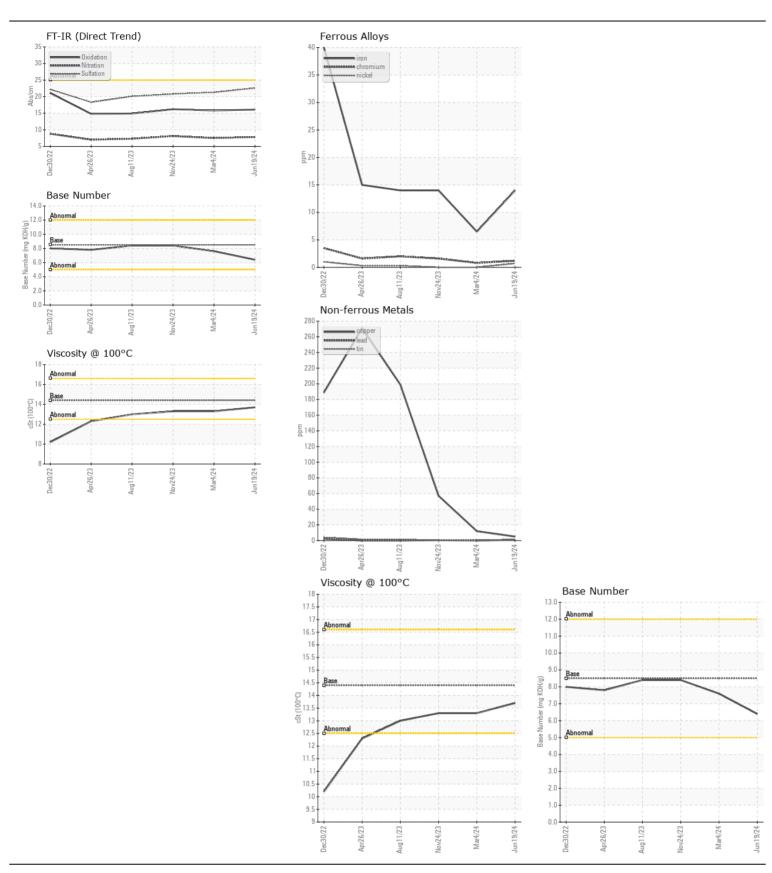
NORMAL NORMAL NORMAL

Machine Id

36617Component

Component Diesel Engine

DIESEL ENGINE OIL SAE 40 (QTS)							
RECOMMENDATION			Madaaal	Lineit/Alex	Current	Libatamet	Listan O
RECOMMENDATION	Test	UOM	Method	Limit/Abn	WC0946004	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 Sample Date		Client Info		19 Jun 2024	WC0904566 04 Mar 2024	WC0872569 24 Nov 2023
	Machine Age	mls	Client Info		0	04 Mai 2024	0
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed	11115	Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A N/A	N/A	N/A
	Sample Status		Client into		NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	14	6	14
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	1	<1	2
	Nickel	ppm	ASTM D5185m	>4	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m		10	10	18
	Lead	ppm	ASTM D5185m		<1	0	<1
	Copper	ppm	ASTM D5185m		5	12	57
	Tin	ppm	ASTM D5185m	>15	<1	0	<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	7	6	6
CONTRAININATION	Potassium	ppm	ASTM D5185m		19	13	38
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	PP	WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.4	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	7.8	7.5	8.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	21.3	20.8
	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	ppm	ASTM D5185m	\216	<1	1	2
	Boron	ppm	ASTM D5185m		233	232	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		1	0	0
	Molybdenum	ppm	ASTM D5185m		91	86	68
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	452	660	1026
	Calcium	ppm	ASTM D5185m		1380	1352	1219
	Phosphorus	ppm	ASTM D5185m		1119	1063	1084
	Zinc	ppm	ASTM D5185m		1284	1298	1344
	Sulfur	ppm	ASTM D5185m		3216	3481	2986
	Oxidation	Abs/.1mm	*ASTM D7414		16.1	15.8	16.2
	Base Number (BN)				6.4	7.6	8.4
	Visc @ 100°C	cSt	ASTM D445		13.7	13.3	13.3







Certificate L2367

Laboratory Sample No.

: WC0946004 Lab Number : 06219236 Unique Number : 11097433 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Jun 2024 **Tested** : 25 Jun 2024

Diagnosed : 25 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: