WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Machine Id **10541**

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TIESSIMIERISATION	Sample Number		Client Info		WC0929016	WC0842162	
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		08 Apr 2024	06 Nov 2023	12 May 2023
	Machine Age	mls	Client Info		146135	109433	69411
	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	NORMAL
WEAD			40TM DE40E	400		4.4	
WEAR	Iron	ppm	ASTM D5185m		31	44	89
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	2	3
	Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m		<1	<1	0
	Aluminum	ppm	ASTM D5185m		11	14	32
	Lead	ppm	ASTM D5185m		<1	1	0
	Copper	ppm	ASTM D5185m		17	32	119
	Tin	ppm	ASTM D5185m	>15	<1	1	2
	Vanadium	ppm	ASTM D5185m	NONE	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	7	7	7
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.	Potassium	ppm	ASTM D5185m	>20	21	37	85
	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	0.8	0.9	1
	Nitration	Abs/cm	*ASTM D7624	>20	9.1	10.8	12.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.2	22.7	25.3
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2	2	3
TESIB SONDITION	Boron	ppm	ASTM D5185m		104	7	2
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		0	0	0
	Molybdenum	ppm	ASTM D5185m		80	67	65
	Manganese	ppm	ASTM D5185m		<1	1	2
	Magnesium	ppm	ASTM D5185m	450	724	1020	959
	Calcium	ppm	ASTM D5185m		1321	1158	1281
	Phosphorus	ppm	ASTM D5185m		1038	1073	993
	Zinc	ppm	ASTM D5185m		1350	1334	1230
	Sulfur	ppm	ASTM D5185m		3171	2462	2118
	Oxidation	Abs/.1mm	*ASTM D7414		18.8	20.4	23.8
	Base Number (BN)	mg KOH/g	ASTM D2896		6.3	6.9	6.0
	Vice @ 100°C	oC+				10.0	12.0

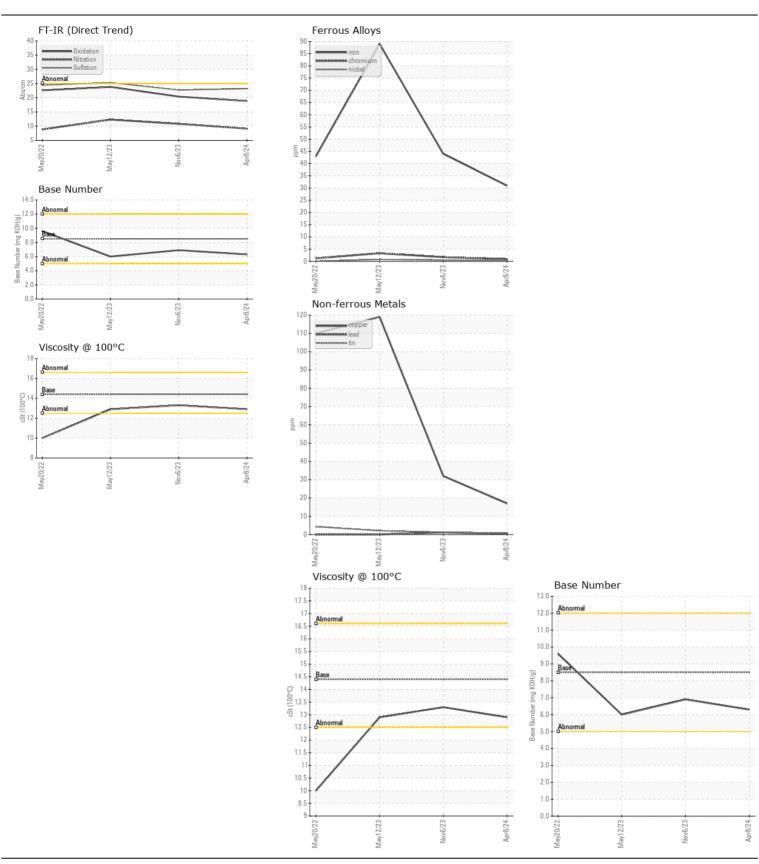
Visc @ 100°C cSt

ASTM D445 14.4

13.3

12.9

12.9







Certificate L2367

Laboratory Sample No. Unique Number : 11046869

: WC0929016 Lab Number : 06190117

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 May 2024 **Tested** : 28 May 2024

: 28 May 2024 - Wes Davis Diagnosed

SALEM NATIONALEASE CORPORATION

198 PARK PLAZA DRIVE WINSTON SALEM, NC US 27105

Contact: Audrey Hopkins

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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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