WEAR CONTAMINATION FLUID CONDITION

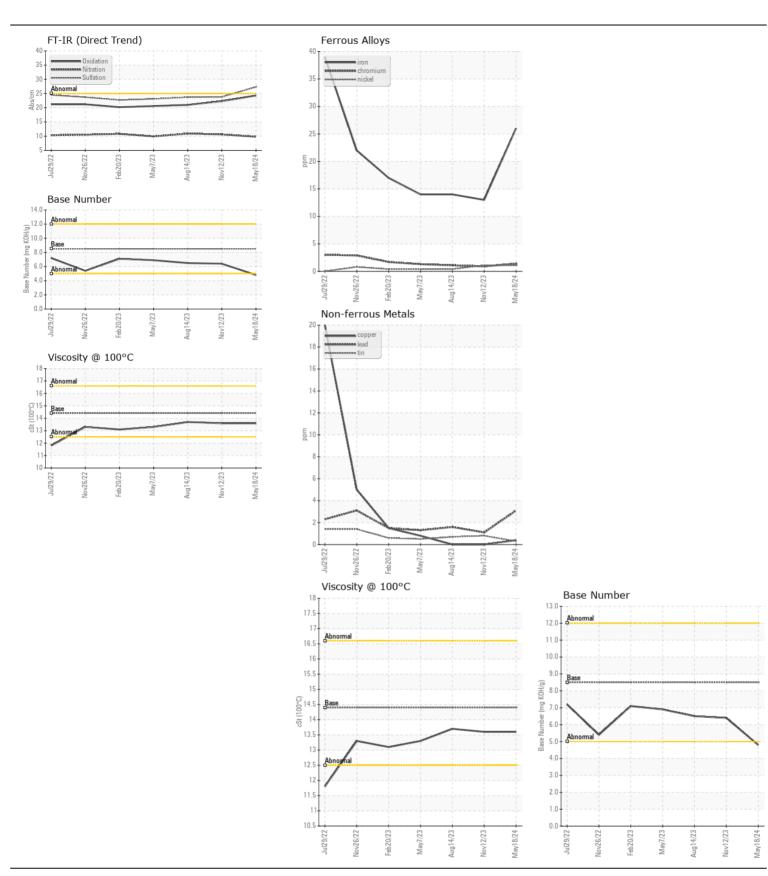
NORMAL NORMAL NORMAL

Machine Id

42663

Diesel Engine

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	OOW	Client Info	LIIIIU/ADII	WC0829690	WC0826779	WC0826715
	Sample Date		Client Info		18 May 2024	12 Nov 2023	14 Aug 2023
	Machine Age	mls	Client Info		238653	183523	153421
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed	11113	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status		Ollerit IIIIO		NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	26	13	14
WEAR	Chromium	ppm	ASTM D5185m		1	<1	1
All component wear rates are normal.	Nickel		ASTM D5185m		1	1	<1
	Titanium	ppm	ASTM D5185m	>4	- <1	0	0
		ppm		. 2			
	Silver	ppm	ASTM D5185m		0	<1	0
	Aluminum	ppm	ASTM D5185m ASTM D5185m		7	5 1	5
	Lead	ppm			3		2
	Copper	ppm	ASTM D5185m		<1	0	0
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m	NONE	0	<1 NONE	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	6	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	14	11	13
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	9.8	10.6	10.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	27.3	23.8	23.7
	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	>158	2	<1	0
	Boron	ppm	ASTM D5185m	250	73	2	3
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	101	59	61
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m	450	478	966	1015
	Calcium	ppm	ASTM D5185m	3000	1391	1033	1082
	Phosphorus	ppm	ASTM D5185m	1150	908	1025	1084
	Zinc	ppm	ASTM D5185m		1155	1265	1366
	Sulfur	ppm	ASTM D5185m	4250	2707	2809	2997
		ppm Abs/.1mm	*ASTM D5185m		2707 24.3	2809 22.3	2997 21.0
	Sulfur	Abs/.1mm	*ASTM D7414	>25			







Certificate L2367

Laboratory Sample No.

: WC0829690 Lab Number : 06241198 Unique Number : 11130032 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Jul 2024 **Tested** : 19 Jul 2024

Diagnosed : 19 Jul 2024 - Wes Davis

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)

F: x: