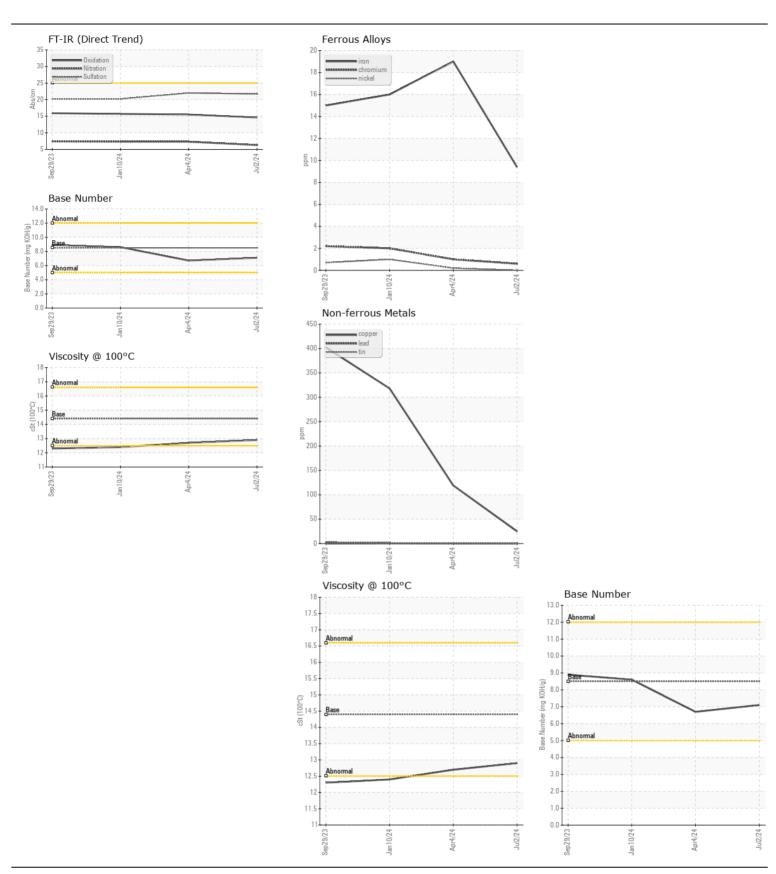
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Machine Id **20579**

Component
Diesel Engine

Fluid Fluid							
DIESEL ENGINE OIL SAE 15W40 (QTS)					.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0951240	WC0904533	WC0861079
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		02 Jul 2024	04 Apr 2024	10 Jan 2024
	Machine Age	mls	Client Info		0	0	0
	Oil Age	mls	Client Info		25000	25000	25000
	Filter Age	mls	Client Info		25000	25000	25000
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	9	19	16
WEAT	Chromium	ppm	ASTM D5185m		<1	1	2
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	1
	Titanium	ppm	ASTM D5185m	7	<1	<1	<1
	Silver	ppm	ASTM D5185m	~3	0	<1	0
	Aluminum	ppm	ASTM D5185m		9	16	18
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		25	119	318
	Tin	ppm	ASTM D5185m		<1	<1	2
	Vanadium	ppm	ASTM D5185m	710	<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
			VIOUUI	11011			140142
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	3	6	5
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	17	37	47
	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	0.3	0.5	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	6.3	7.3	7.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	22.0	20.2
	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	0	2	0
	Boron	ppm	ASTM D5185m	250	323	331	6
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	88	80	70
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m	450	410	469	1013
	Calcium	ppm	ASTM D5185m	3000	1410	1340	1074
	Phosphorus	ppm	ASTM D5185m	1150	1073	1075	910
	Zinc	ppm	ASTM D5185m	1350	1243	1251	1264
	Sulfur	ppm	ASTM D5185m	4250	2896	3032	2687
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	15.5	15.7
	Base Number (BN)		ASTM D2896	8.5	7.1	6.7	8.6
	Visc @ 100°C	cSt	ASTM D445	14.4	12.9	12.7	12.4







Certificate L2367

Report Id: SALWIN [WUSCAR] 06234733 (Generated: 07/15/2024 09:45:10) Rev: 1

Laboratory Sample No.

Lab Number : 06234733 Unique Number : 11123567

: WC0951240 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Jul 2024 **Tested**

: 15 Jul 2024 Diagnosed : 15 Jul 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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: x:

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