WEAR CONTAMINATION FLUID CONDITION

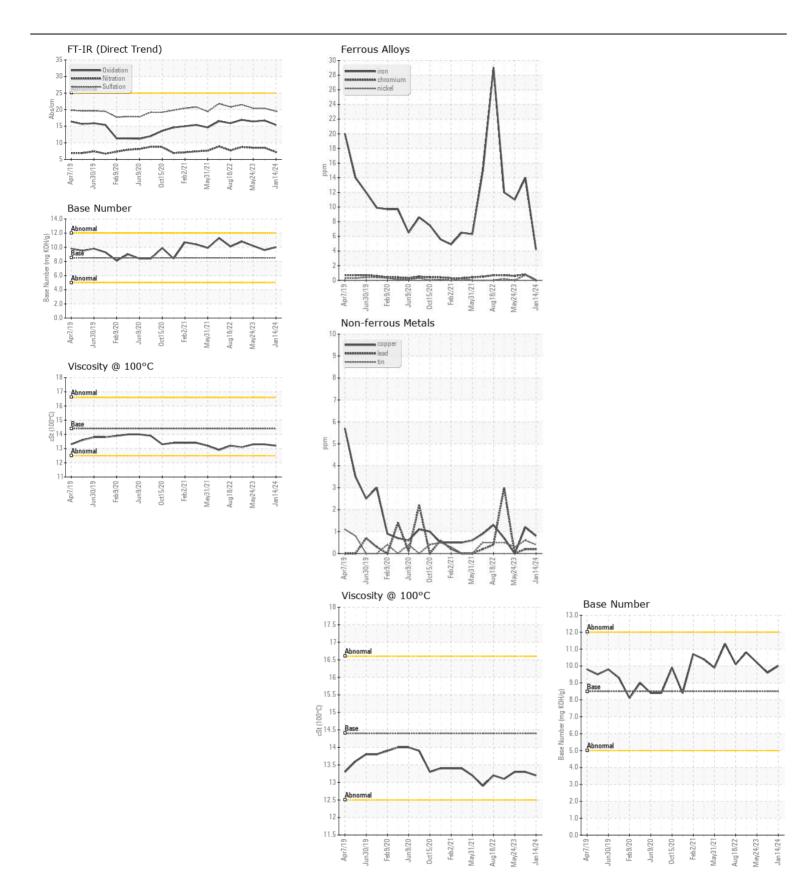
NORMAL NORMAL

Machine Id

255490

Component
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	UCIVI	Client Info	LIIIIII/AUII	WC0891609	WC0874154	WC0811072
	Sample Number		Client Info		14 Jan 2024	19 Nov 2023	24 May 2023
	Machine Age	mls	Client Info		178044	173090	105256
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed	11110	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	4	14	11
	Chromium	ppm	ASTM D5185m		0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		2	5	6
	Lead	ppm	ASTM D5185m		<1	<1	0
	Copper	ppm	ASTM D5185m	>330	<1	1	0
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		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	2	6	3
	Potassium	ppm	ASTM D5185m	>20	2	4	5
There is no indication of any contamination in the oil.	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	0.2	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	7.2	8.5	8.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	20.4	20.4
	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	3	<1	<1
The DNI would be floated that the control of the floates are able to the	Boron	ppm	ASTM D5185m	250	1	1	<1
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	1	0
	Molybdenum	ppm	ASTM D5185m	100	62	74	64
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	983	1163	1064
	Calcium	ppm	ASTM D5185m		1077	1249	1112
	Phosphorus	ppm	ASTM D5185m		1132	1163	1104
	Zinc	ppm	ASTM D5185m		1265	1407	1368
	Sulfur	ppm	ASTM D5185m		3934	4026	4105
	Oxidation	Abs/.1mm	*ASTM D7414		15.4	16.7	16.4
	Base Number (BN)				10.0	9.6	10.2
	Visc @ 100°C	cSt	ASTM D445	14.4	13.2	13.3	13.3







Certificate L2367

Laboratory Sample No.

: WC0891609 Lab Number : 06153681 Unique Number: 10983759 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

: 19 Apr 2024 : 19 Apr 2024 - Wes Davis Diagnosed

SALEM NATIONALEASE CORPORATION

198 PARK PLAZA DRIVE WINSTON SALEM, NC

US 27105 Contact: Audrey Hopkins

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* - 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)