



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	SEVERE

Machine Id
INTERNATIONAL 14941
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (32 QTS)

RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0929012	WC0645547	WC0413188
Sample Date		Client Info		06 May 2024	21 Dec 2021	06 Feb 2020
Machine Age	mls	Client Info		135893	131790	129927
Oil Age	mls	Client Info		0	0	10000
Filter Age	mls	Client Info		0	0	10000
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	SEVERE	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	10	11	7
Chromium	ppm	ASTM D5185m	>15	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>15	2	1	<1
Lead	ppm	ASTM D5185m	>70	<1	0	<1
Copper	ppm	ASTM D5185m	>175	<1	<1	1
Tin	ppm	ASTM D5185m	>5	<1	0	<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

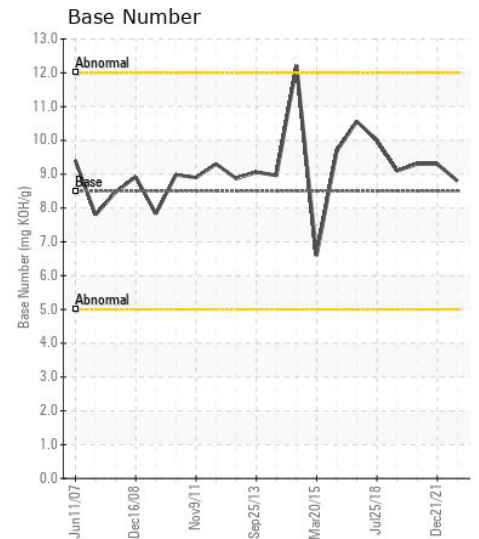
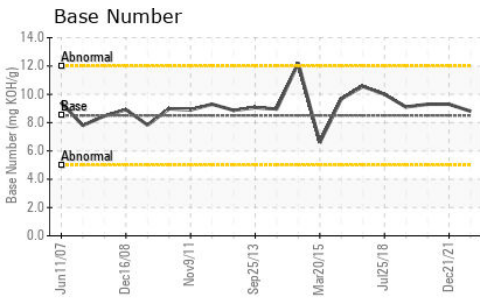
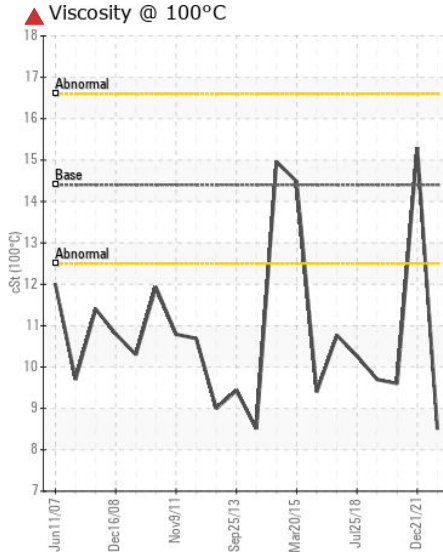
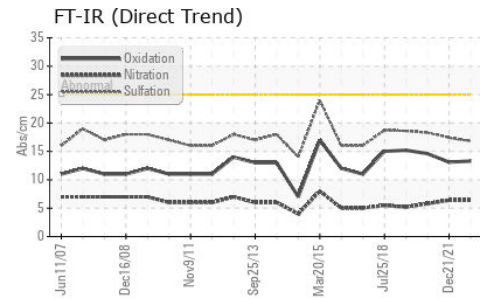
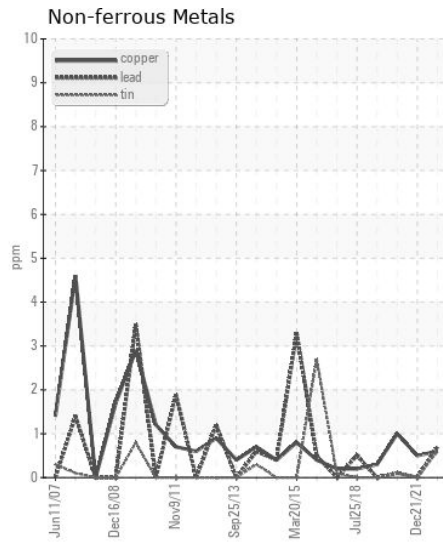
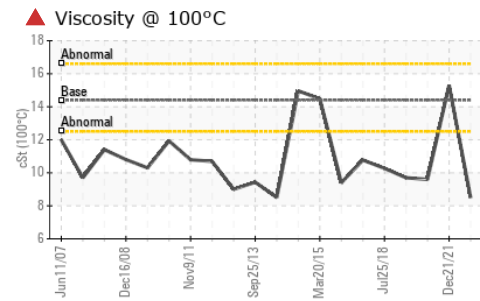
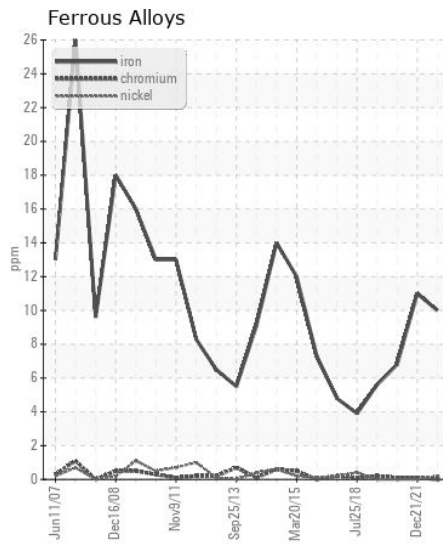
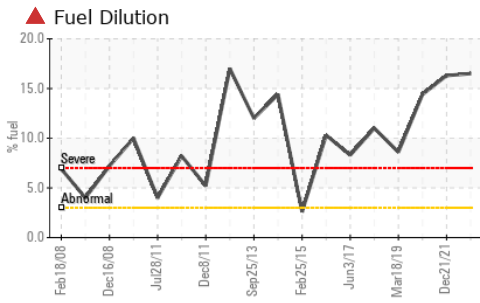
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185m	>25	5	3	2
Potassium	ppm	ASTM D5185m	>20	2	0	1
Fuel	%	ASTM D3524	>3.0	▲ 16.5	▲ 16.3	▲ 14.4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.4	6.4	5.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.8	17.4	18.3
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	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m	>158	4	1	<1
Boron	ppm	ASTM D5185m	250	5	9	128
Barium	ppm	ASTM D5185m	10	0	0	<1
Molybdenum	ppm	ASTM D5185m	100	53	50	60
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	863	736	333
Calcium	ppm	ASTM D5185m	3000	902	1084	1569
Phosphorus	ppm	ASTM D5185m	1150	884	926	933
Zinc	ppm	ASTM D5185m	1350	1075	1104	1081
Sulfur	ppm	ASTM D5185m	4250	3314	2947	2637
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	13.1	14.6
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.8	9.3	9.3
Visc @ 100°C	cSt	ASTM D445	14.4	▲ 8.5	15.3	▲ 9.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0929012

Lab Number : 06190076

Unique Number : 11046828

Test Package : FLEET (Additional Tests: PercentFuel)

Received : 23 May 2024

Tested : 28 May 2024

Diagnosed : 28 May 2024 - Wes Davis

SALEM NATIONALEASE CORPORATION

198 PARK PLAZA DRIVE

WINSTON SALEM, NC

US 27105

Contact: Audrey Hopkins

Audrey.Hopkins@salemcorp.com

T: (336)767-9642

F: x:

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)