



WEAR	ABNORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Machine Id
YRD 8
Component
Diesel Engine
Fluid
VALVOLINE 15W40 (--- GAL)

RECOMMENDATION

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0028432	IL0034303	IL05900946
Sample Date		Client Info		09 Jan 2024	11 Oct 2023	28 Jun 2023
Machine Age	mls	Client Info		30015	0	13222
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				SEVERE	SEVERE	SEVERE

WEAR

Cylinder, crank, or cam shaft wear is indicated.

Iron	ppm	ASTM D5185m	>100	▲ 137	▲ 244	▲ 216
Chromium	ppm	ASTM D5185m	>20	7	8	5
Nickel	ppm	ASTM D5185m	>4	1	1	<1
Titanium	ppm	ASTM D5185m		1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	9	6	8
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	2	5	6
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

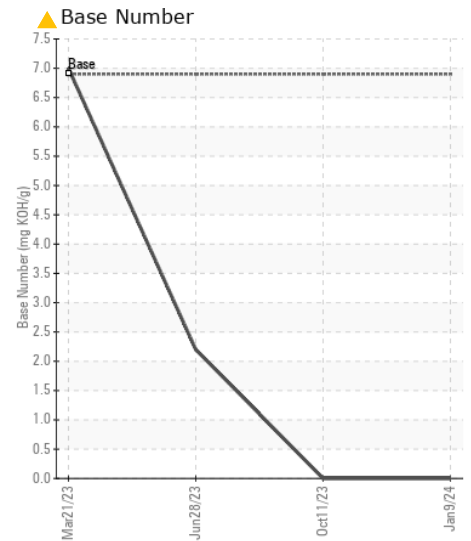
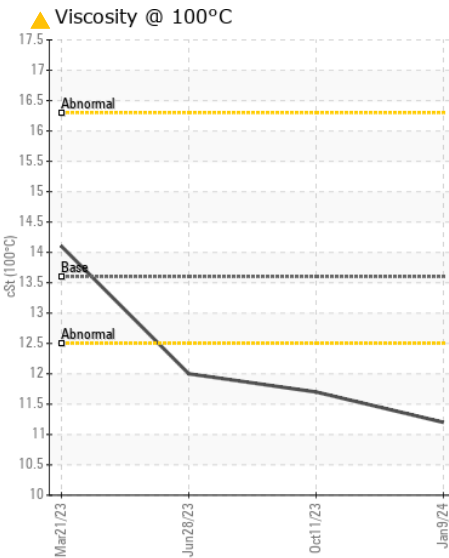
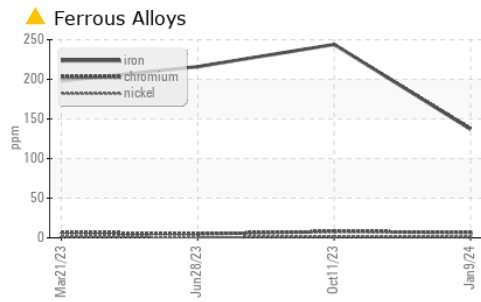
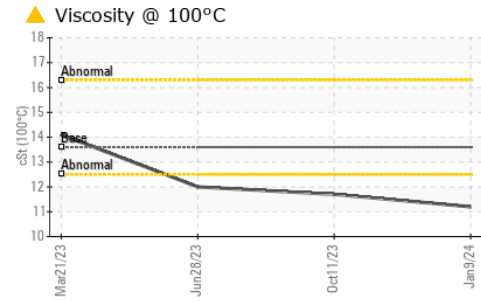
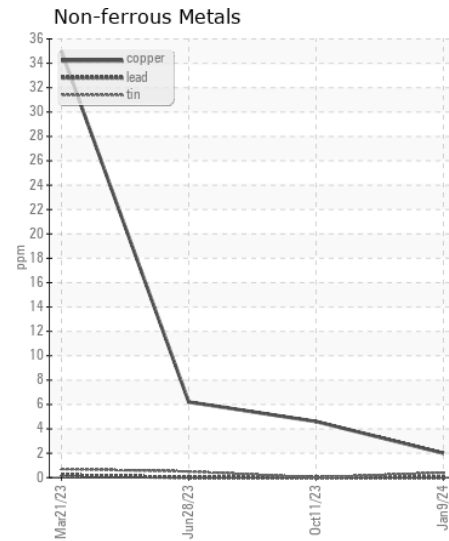
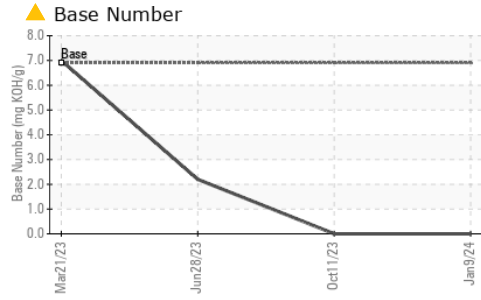
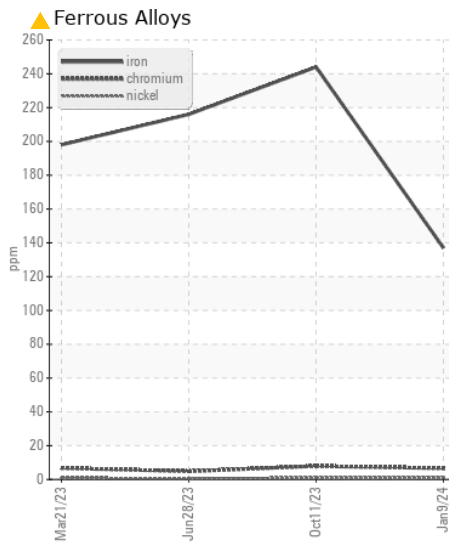
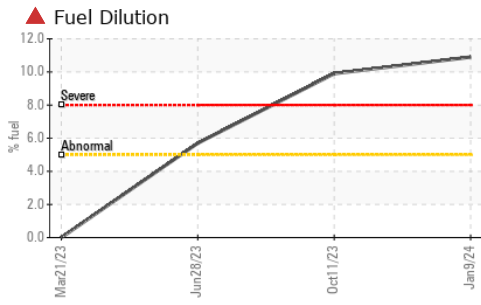
There is a high amount of fuel present in the oil.

Silicon	ppm	ASTM D5185m	>25	10	15	15
Potassium	ppm	ASTM D5185m	>20	17	● 68	▲ 355
Fuel	%	ASTM D3524	>5	▲ 10.9	▲ 9.9	▲ 5.7
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	▲ 0.10
Soot %	%	*ASTM D7844	>3	1.3	1.5	1.2
Nitration	Abs/cm	*ASTM D7624	>20	24.0	22.1	17.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	46.7	47.9	39.0
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

Fuel is present in the oil and is lowering the viscosity. The BN level is low.

Sodium	ppm	ASTM D5185m		5	8	▲ 53
Boron	ppm	ASTM D5185m	39	22	26	60
Barium	ppm	ASTM D5185m	1	0	0	0
Molybdenum	ppm	ASTM D5185m	49	56	76	97
Manganese	ppm	ASTM D5185m	1	2	2	4
Magnesium	ppm	ASTM D5185m	616	610	607	514
Calcium	ppm	ASTM D5185m	1554	998	1259	1286
Phosphorus	ppm	ASTM D5185m	899	643	810	856
Zinc	ppm	ASTM D5185m	1069	818	987	1080
Sulfur	ppm	ASTM D5185m	2624	2072	2785	3159
Oxidation	Abs/.1mm	*ASTM D7414	>25	82.1	76.2	49.3
Base Number (BN)	mg KOH/g	ASTM D2896	6.9	▲ 0.0	▲ 0.0	▲ 2.2
Visc @ 100°C	cSt	ASTM D445	13.6	▲ 11.2	▲ 11.7	▲ 12.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0028432 **Received** : 29 Feb 2024
Lab Number : 06104090 **Tested** : 04 Mar 2024
Unique Number : 10902320 **Diagnosed** : 04 Mar 2024 - Don Baldrige
Test Package : FLEET (Additional Tests: PercentFuel)

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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