



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
6012514
Component
Diesel Engine
Fluid
{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0034871	IL06019341	IL05261807
Sample Date		Client Info		14 Feb 2024	25 Sep 2023	26 Jan 2021
Machine Age	mls	Client Info		11345	10547	4406
Oil Age	mls	Client Info		0	10547	4406
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	77	54	53
Chromium	ppm	ASTM D5185m	>20	2	<1	<1
Nickel	ppm	ASTM D5185m	>4	1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	18	14	7
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	15	11	56
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

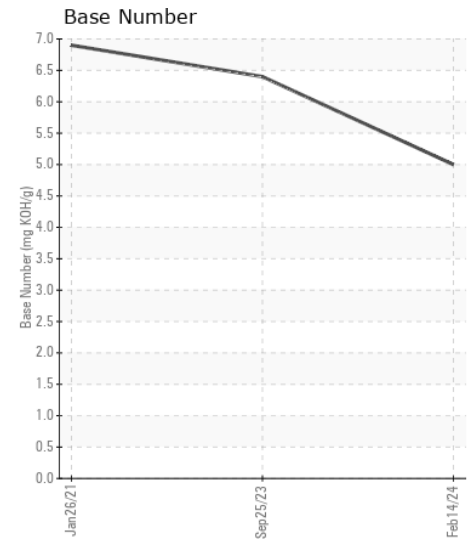
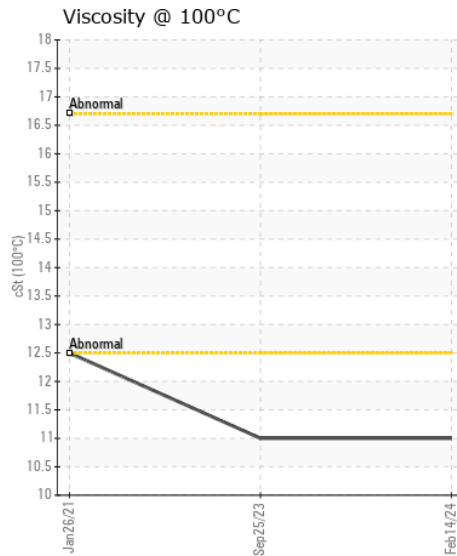
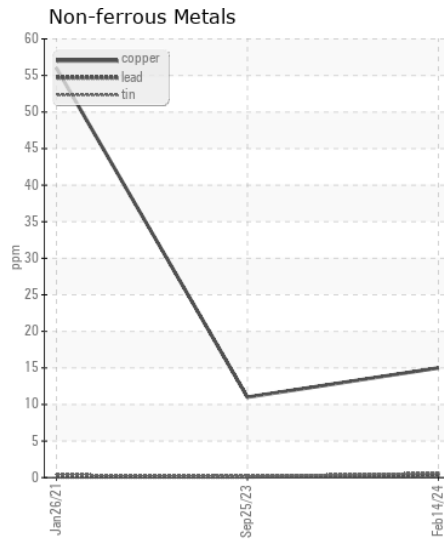
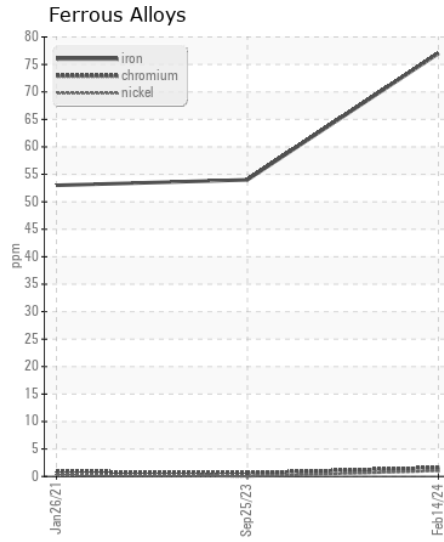
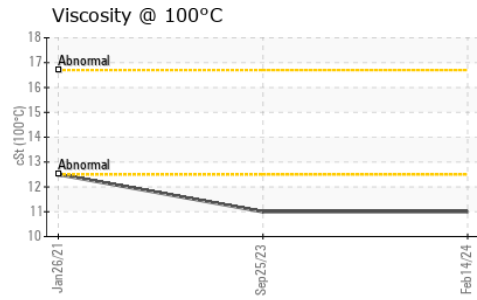
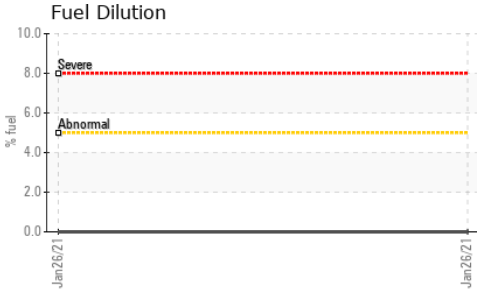
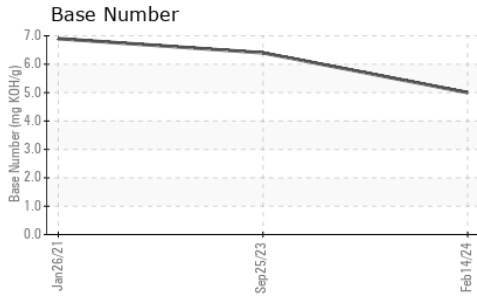
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	13	11	24
Potassium	ppm	ASTM D5185m	>20	50	41	31
Fuel	%	ASTM D3524	>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	0.8	0.6	0.8
Nitration	Abs/cm	*ASTM D7624	>20	10.8	10.8	12.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.7	24.0	26.4
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

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		4	3	7
Boron	ppm	ASTM D5185m		25	30	38
Barium	ppm	ASTM D5185m		34	0	4
Molybdenum	ppm	ASTM D5185m		16	19	40
Manganese	ppm	ASTM D5185m		2	1	3
Magnesium	ppm	ASTM D5185m		570	611	495
Calcium	ppm	ASTM D5185m		1143	1381	1334
Phosphorus	ppm	ASTM D5185m		611	725	760
Zinc	ppm	ASTM D5185m		775	814	987
Sulfur	ppm	ASTM D5185m		2756	2681	2212
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	17.0	22.6
Base Number (BN)	mg KOH/g	ASTM D2896		5.0	6.4	6.9
Visc @ 100°C	cSt	ASTM D445		11.0	11.0	12.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0034871 **Received** : 26 Feb 2024
Lab Number : 06099915 **Tested** : 27 Feb 2024
Unique Number : 10898145 **Diagnosed** : 28 Feb 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: FuelDilution)

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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)