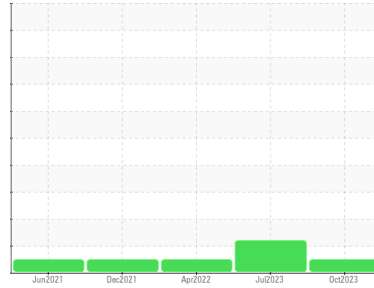




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
8114764

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		IL06009324	IL05911759	IL05531113
Sample Date	Client Info		09 Oct 2023	05 Jul 2023	18 Apr 2022
Machine Age	mls	Client Info	90897	82986	49380
Oil Age	mls	Client Info	40000	40000	30000
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			NORMAL	ABNORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	<1.0
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	12	99	14
Chromium	ppm	ASTM D5185m >20	<1	4	0
Nickel	ppm	ASTM D5185m >4	0	<1	0
Titanium	ppm	ASTM D5185m	0	<1	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >20	4	27	8
Lead	ppm	ASTM D5185m >40	<1	5	0
Copper	ppm	ASTM D5185m >330	1	6	0
Tin	ppm	ASTM D5185m >15	<1	2	0
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 250	30	15	34
Barium	ppm	ASTM D5185m 10	0	0	0
Molybdenum	ppm	ASTM D5185m 100	39	45	36
Manganese	ppm	ASTM D5185m	<1	2	0
Magnesium	ppm	ASTM D5185m 450	462	490	583
Calcium	ppm	ASTM D5185m 3000	1537	1604	1695
Phosphorus	ppm	ASTM D5185m 1150	702	694	784
Zinc	ppm	ASTM D5185m 1350	851	901	876
Sulfur	ppm	ASTM D5185m 4250	2283	2085	2252

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	9	17	5
Sodium	ppm	ASTM D5185m	3	3	2
Potassium	ppm	ASTM D5185m >20	8	60	17

INFRA-RED

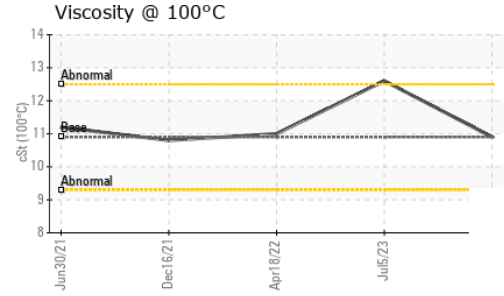
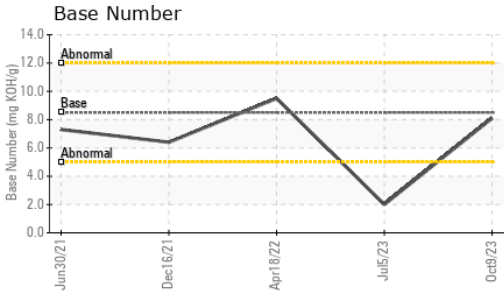
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.4	1.6	0.5
Nitration	Abs/cm	*ASTM D7624 >20	10.2	18.6	10.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	24.7	36.9	23.9

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	26.5	50.3	23.3
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	8.1	▲ 2.0	9.5



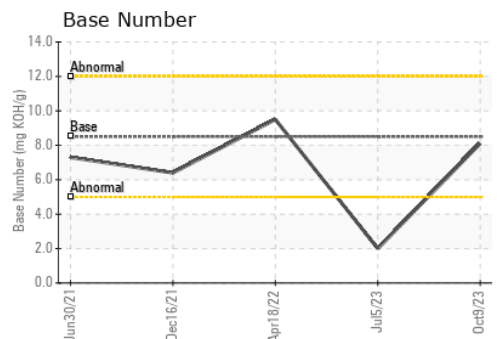
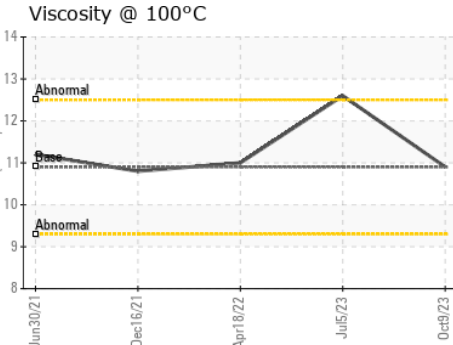
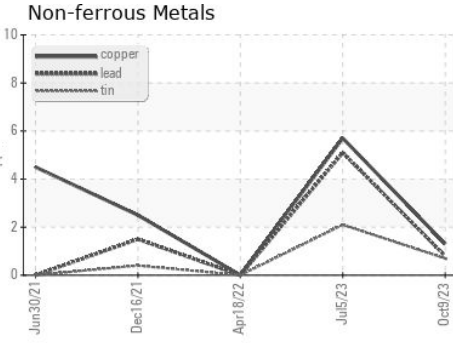
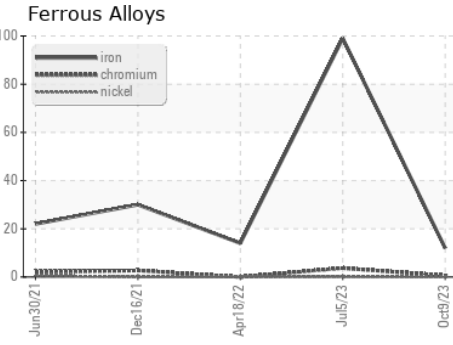
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	10.9	10.9	12.6

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL06009324 **Received** : 16 Nov 2023
Lab Number : **06009324** **Diagnosed** : 19 Nov 2023
Unique Number : 10743086 **Diagnostician** : Don Baldrige
Test Package : FLEET

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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)