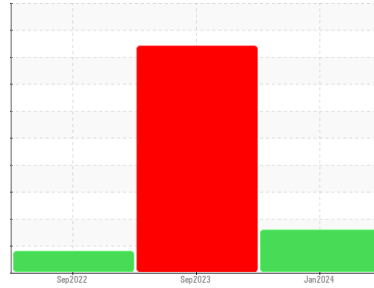




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
39123

Component
Diesel Engine

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

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

▲ Wear

Piston, ring and cylinder wear is indicated.

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 acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		IL06073777	IL05958418	IL05643483
Sample Date	Client Info		29 Jan 2024	21 Sep 2023	15 Sep 2022
Machine Age	mls	Client Info	0	0	0
Oil Age	mls	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	SEVERE	MARGINAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	▲ 2.1
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	▲ 138	337	69
Chromium	ppm	ASTM D5185m >20	4	6	2
Nickel	ppm	ASTM D5185m >4	<1	<1	0
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m >3	0	0	<1
Aluminum	ppm	ASTM D5185m >20	▲ 18	▲ 18	5
Lead	ppm	ASTM D5185m >40	<1	0	<1
Copper	ppm	ASTM D5185m >330	3	4	30
Tin	ppm	ASTM D5185m >15	<1	2	<1
Vanadium	ppm	ASTM D5185m	<1	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 250	28	30	15
Barium	ppm	ASTM D5185m 10	0	0	6
Molybdenum	ppm	ASTM D5185m 100	106	56	48
Manganese	ppm	ASTM D5185m	1	4	7
Magnesium	ppm	ASTM D5185m 450	74	482	750
Calcium	ppm	ASTM D5185m 3000	2492	1859	1124
Phosphorus	ppm	ASTM D5185m 1150	1008	825	630
Zinc	ppm	ASTM D5185m 1350	1443	1020	832
Sulfur	ppm	ASTM D5185m 4250	4156	3052	2171

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	12	16	24
Sodium	ppm	ASTM D5185m	1	4	5
Potassium	ppm	ASTM D5185m >20	4	2	<1

INFRA-RED

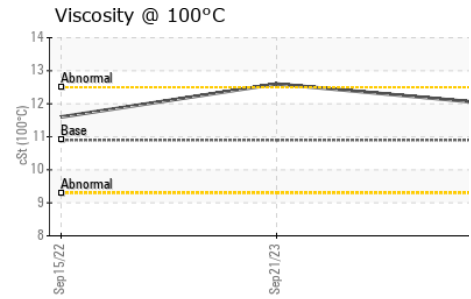
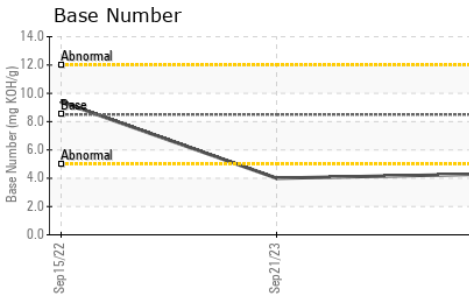
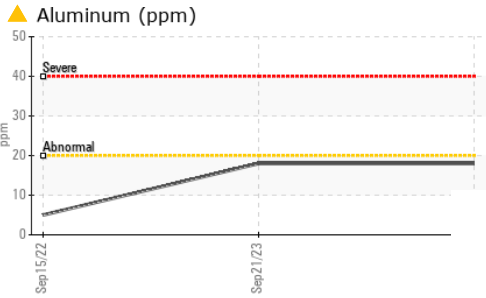
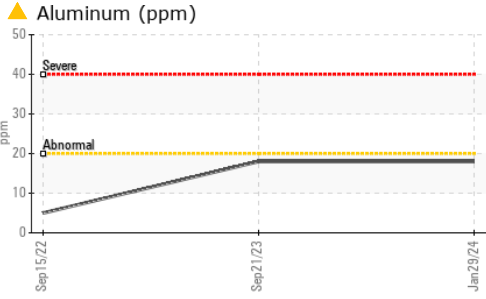
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	2.9	▲ 3.5	1
Nitration	Abs/cm	*ASTM D7624 >20	16.4	19.7	12.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	32.1	33.4	23.8

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	27.6	35.6	21.6
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	4.3	4.0	9.4



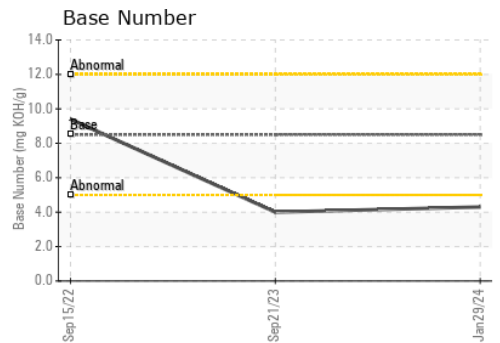
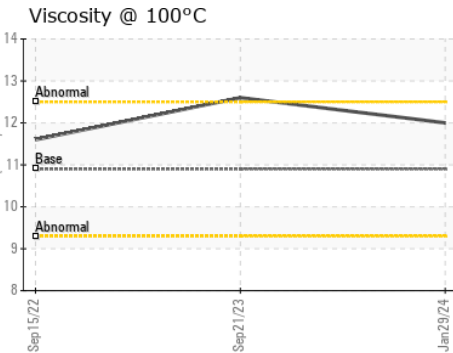
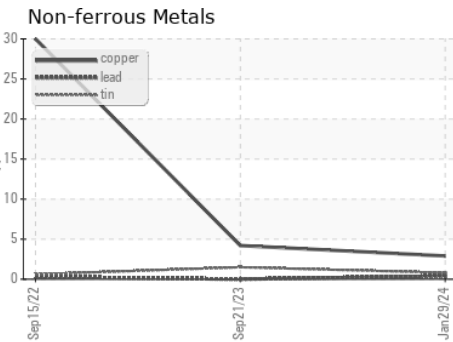
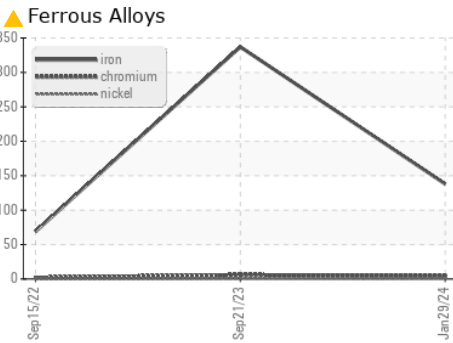
OIL ANALYSIS REPORT



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	12.0	12.6	11.6

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL06073777 **Received** : 30 Jan 2024
Lab Number : 06073777 **Diagnosed** : 31 Jan 2024
Unique Number : 10855868 **Diagnostician** : Sean Felton
Test Package : FLEET

IDEALEASE-NORCROSS
 4571 NORTH BUFORD HWY
 NORCROSS, GA
 US 30071-2808
 Contact: RICK MARKS

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)

T:
F: (770)300-0614