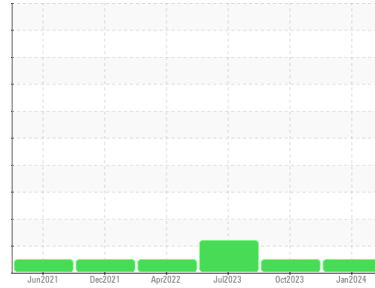




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
8114764

Component
Diesel Engine

Fluid
DIESSEL 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			IL0034898	IL06009324	IL05911759
Sample Date	Client Info			09 Jan 2024	09 Oct 2023	05 Jul 2023
Machine Age	mls	Client Info		97586	90897	82986
Oil Age	mls	Client Info		0	40000	40000
Oil Changed	Client Info			N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
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	23	12	99
Chromium	ppm	ASTM D5185m	>20	<1	<1	4
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	6	4	27
Lead	ppm	ASTM D5185m	>40	4	<1	5
Copper	ppm	ASTM D5185m	>330	<1	1	6
Tin	ppm	ASTM D5185m	>15	1	<1	2
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	21	30	15
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	37	39	45
Manganese	ppm	ASTM D5185m		<1	<1	2
Magnesium	ppm	ASTM D5185m	450	454	462	490
Calcium	ppm	ASTM D5185m	3000	1432	1537	1604
Phosphorus	ppm	ASTM D5185m	1150	700	702	694
Zinc	ppm	ASTM D5185m	1350	822	851	901
Sulfur	ppm	ASTM D5185m	4250	2164	2283	2085

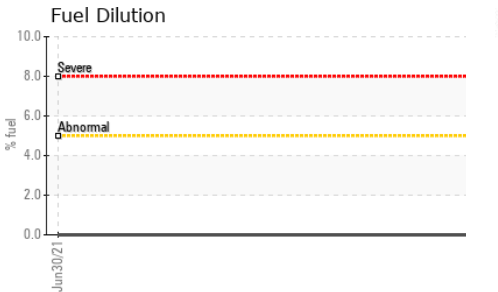
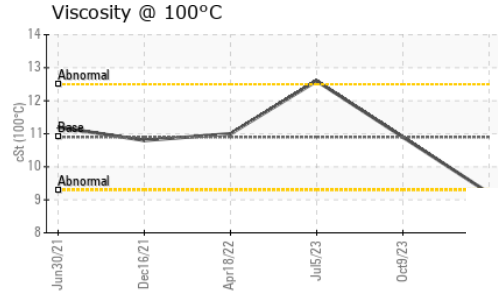
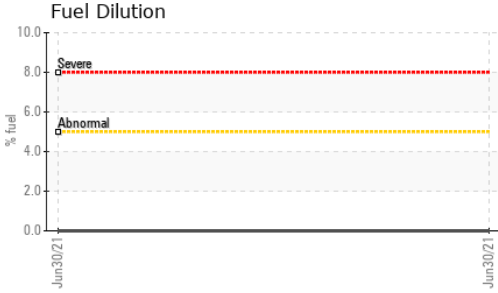
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15	9	17
Sodium	ppm	ASTM D5185m		2	3	3
Potassium	ppm	ASTM D5185m	>20	14	8	60
Fuel	%	ASTM D3524	>5	<1.0	<1.0	<1.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.4	1.6
Nitration	Abs/cm	*ASTM D7624	>20	12.7	10.2	18.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.5	24.7	36.9

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	40.1	26.5	50.3
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	3.6	8.1	▲ 2.0



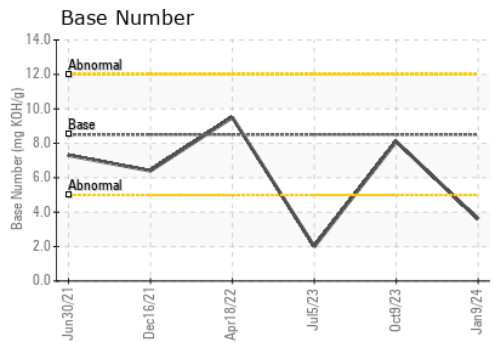
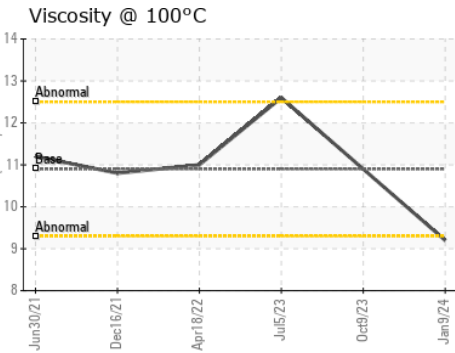
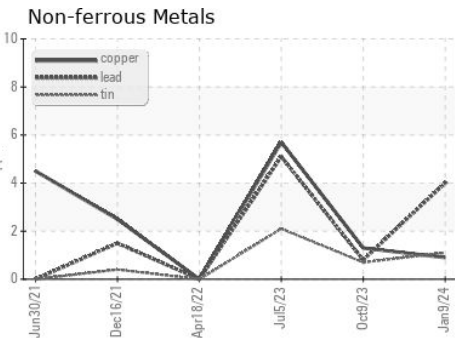
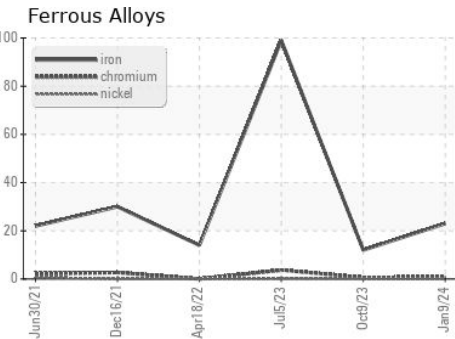
OIL ANALYSIS REPORT



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	9.2	10.9	12.6

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0034898 **Received** : 17 Jan 2024
Lab Number : **06063330** **Diagnosed** : 19 Jan 2024
Unique Number : 10834712 **Diagnostician** : Don Baldrige
Test Package : FLEET (Additional Tests: FuelDilution)

IDEALRELEASE OF ATLANTA - FULTON
 4675 BAKERS FERRY ROAD
 ATLANTA, GA
 US 30331
 Contact: DAVID JOHNS
 davidjohns@idealease.com
 T: (404)699-5571
 F: (404)699-7420

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)