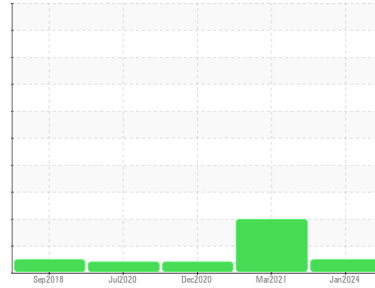




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
7811620

Component
Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

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 acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	IL06073739	IL05208174	IL05155915
Sample Date	Client Info	29 Jan 2024	17 Mar 2021	22 Dec 2020
Machine Age	mls Client Info	0	264875	259069
Oil Age	mls Client Info	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	ATTENTION	ATTENTION

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	<1.0
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	12	60	11
Chromium	ppm ASTM D5185m >20	<1	2	<1
Nickel	ppm ASTM D5185m >4	0	1	0
Titanium	ppm ASTM D5185m	<1	<1	<1
Silver	ppm ASTM D5185m >3	0	0	0
Aluminum	ppm ASTM D5185m >20	2	▲ 18	3
Lead	ppm ASTM D5185m >40	1	▲ 30	4
Copper	ppm ASTM D5185m >330	<1	5	<1
Tin	ppm ASTM D5185m >15	<1	0	2
Antimony	ppm ASTM D5185m	---	0	0
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	0	<1

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 250	230	30	31
Barium	ppm ASTM D5185m 10	0	0	0
Molybdenum	ppm ASTM D5185m 100	91	40	39
Manganese	ppm ASTM D5185m	0	1	<1
Magnesium	ppm ASTM D5185m 450	420	548	535
Calcium	ppm ASTM D5185m 3000	1417	1640	1726
Phosphorus	ppm ASTM D5185m 1150	901	651	703
Zinc	ppm ASTM D5185m 1350	1236	839	891
Sulfur	ppm ASTM D5185m 4250	3228	1898	2072

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	7	8	6
Sodium	ppm ASTM D5185m	0	6	4
Potassium	ppm ASTM D5185m >20	4	21	0

INFRA-RED

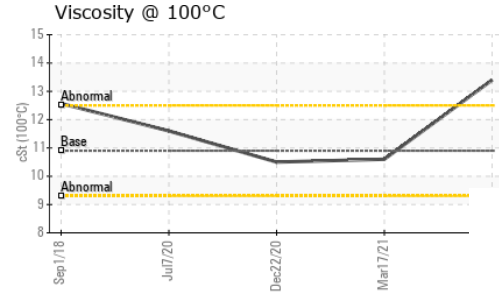
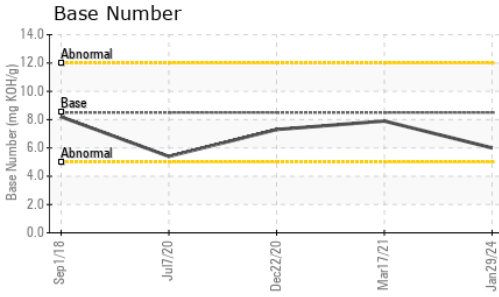
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.4	1	0.2
Nitration	Abs/cm *ASTM D7624 >20	8.7	14.1	9.8
Sulfation	Abs/.1mm *ASTM D7415 >30	24.4	26.4	25.4

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	20.3	25.5	27.1
Base Number (BN)	mg KOH/g ASTM D2896 8.5	6.0	7.9	7.3



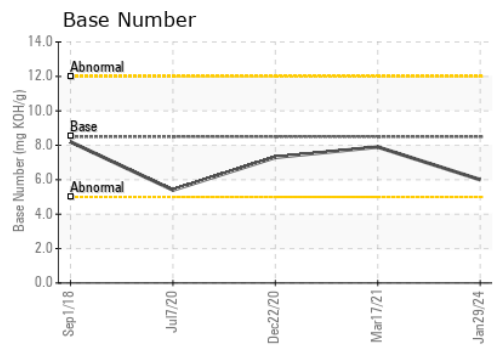
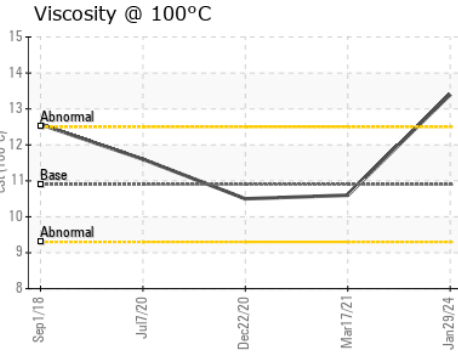
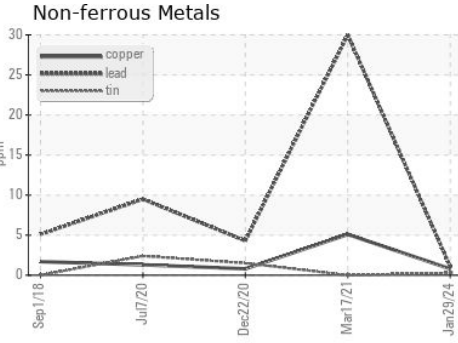
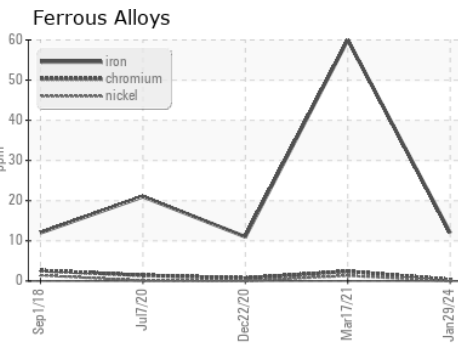
OIL ANALYSIS REPORT



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	13.4	▲ 10.6	▲ 10.5

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL06073739 **Received** : 30 Jan 2024
Lab Number : **06073739** **Diagnosed** : 31 Jan 2024
Unique Number : 10850416 **Diagnostician** : Sean Felton
Test Package : FLEET

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

Certificate L2367
 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