



WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ABNORMAL

Machine Id
8784
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

RECOMMENDATION

The oil is near the end of its useful service life, recommend schedule an oil change. No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL06073753	IL05731434	---
Sample Date		Client Info		29 Jan 2024	06 Dec 2022	---
Machine Age	mls	Client Info		0	0	---
Oil Age	mls	Client Info		0	0	---
Filter Age	mls	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	22	51	---
Chromium	ppm	ASTM D5185m	>20	1	3	---
Nickel	ppm	ASTM D5185m	>4	0	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	3	7	---
Lead	ppm	ASTM D5185m	>40	2	10	---
Copper	ppm	ASTM D5185m	>330	2	4	---
Tin	ppm	ASTM D5185m	>15	1	2	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

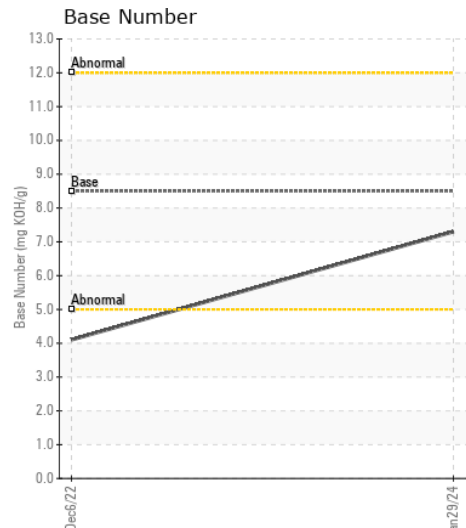
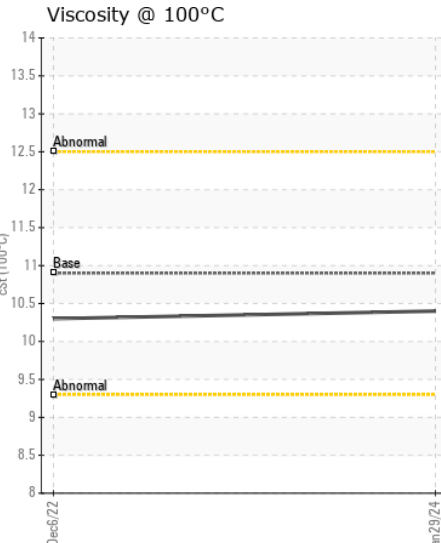
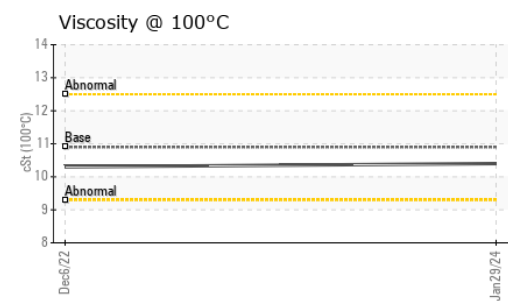
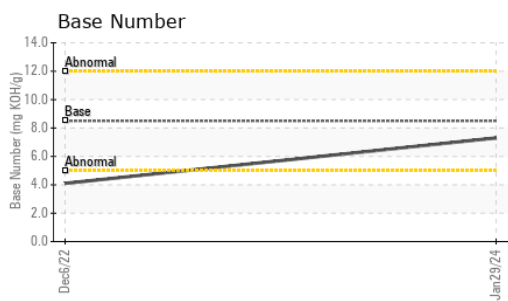
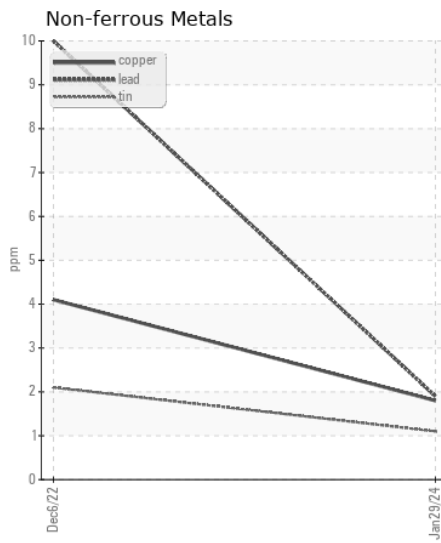
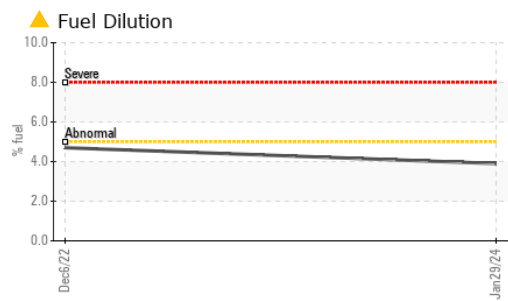
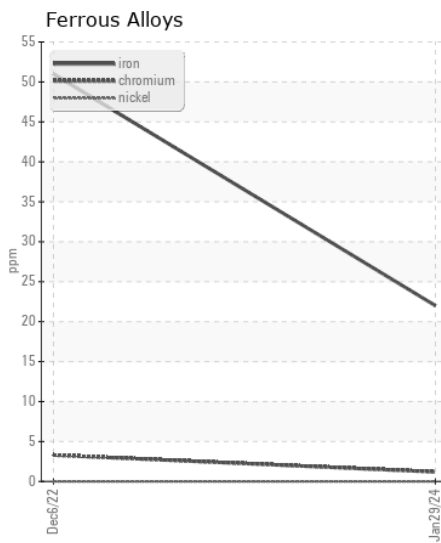
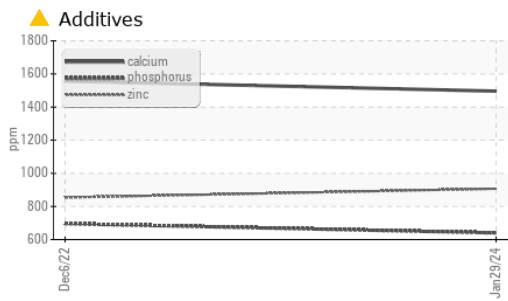
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>25	6	8	---
Potassium	ppm	ASTM D5185m	>20	5	10	---
Fuel	%	ASTM D3524	>5	▲ 3.9	▲ 4.7	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.4	0.6	---
Nitration	Abs/cm	*ASTM D7624	>20	12.0	14.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	27.5	---
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	---

FLUID CONDITION

Phosphorus ppm levels are abnormally low. The BN result indicates that there is suitable alkalinity remaining in the oil.

Sodium	ppm	ASTM D5185m		0	1	---
Boron	ppm	ASTM D5185m	250	26	22	---
Barium	ppm	ASTM D5185m	10	0	1	---
Molybdenum	ppm	ASTM D5185m	100	47	36	---
Manganese	ppm	ASTM D5185m		<1	1	---
Magnesium	ppm	ASTM D5185m	450	503	499	---
Calcium	ppm	ASTM D5185m	3000	1496	1557	---
Phosphorus	ppm	ASTM D5185m	1150	▲ 640	696	---
Zinc	ppm	ASTM D5185m	1350	907	854	---
Sulfur	ppm	ASTM D5185m	4250	2242	2229	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.5	29.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.3	4.1	---
Visc @ 100°C	cSt	ASTM D445	10.9	10.4	10.3	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL06073753 **Received** : 30 Jan 2024
Lab Number : 06073753 **Diagnosed** : 31 Jan 2024
Unique Number : 10855844 **Diagnostician** : Wes Davis
Test Package : FLEET (Additional Tests: PercentFuel)

IDEALASE-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:
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