



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
8913505
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0031052	IL06019331	IL05934008
Sample Date		Client Info		08 Apr 2024	15 Nov 2023	07 Aug 2023
Machine Age	mls	Client Info		161189	154920	146399
Oil Age	mls	Client Info		0	40000	40000
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	62	31	26
Chromium	ppm	ASTM D5185m	>20	5	2	2
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	6	3	7
Lead	ppm	ASTM D5185m	>40	4	2	0
Copper	ppm	ASTM D5185m	>330	54	49	29
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

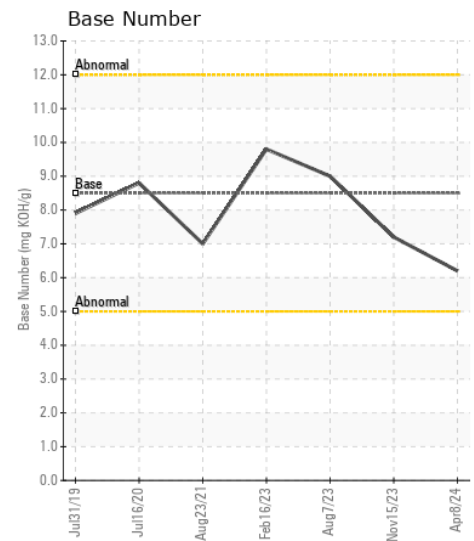
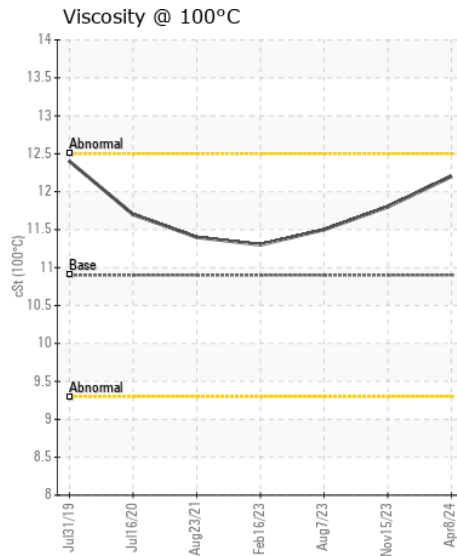
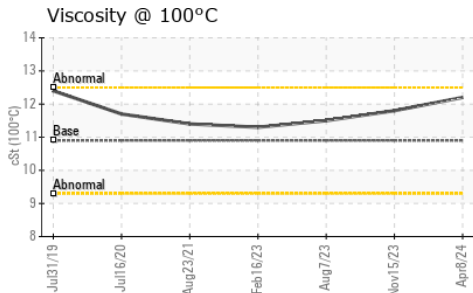
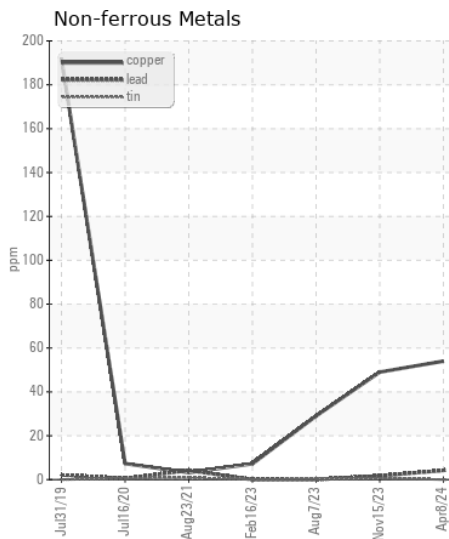
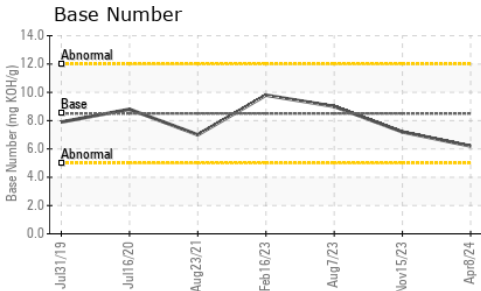
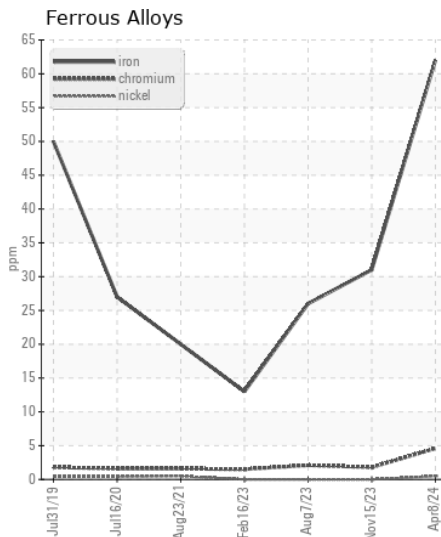
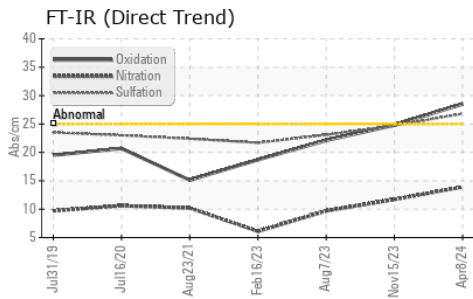
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	19	11	16
Potassium	ppm	ASTM D5185m	>20	7	2	3
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1.7	1.2	0.7
Nitration	Abs/cm	*ASTM D7624	>20	13.9	11.7	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.8	24.7	23.1
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

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.

Sodium	ppm	ASTM D5185m	>75	5	4	4
Boron	ppm	ASTM D5185m	250	14	15	26
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	47	46	49
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	450	496	510	560
Calcium	ppm	ASTM D5185m	3000	1728	1801	1827
Phosphorus	ppm	ASTM D5185m	1150	699	757	784
Zinc	ppm	ASTM D5185m	1350	842	908	975
Sulfur	ppm	ASTM D5185m	4250	2228	2078	2925
Oxidation	Abs/.1mm	*ASTM D7414	>25	28.5	24.8	22.1
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.2	7.2	9.0
Visc @ 100°C	cSt	ASTM D445	10.9	12.2	11.8	11.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0031052
Lab Number : 06151597
Unique Number : 10981675
Test Package : FLEET

Received : 17 Apr 2024
Tested : 18 Apr 2024
Diagnosed : 19 Apr 2024 - Jonathan Hester

IDEALRELEASE OF ATLANTA - FULTON
 4675 BAKERS FERRY ROAD
 ATLANTA, GA
 US 30331

Contact: DAVID JOHNS
 davidjohns@idealease.com

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)

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