



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
9116595
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0035807	IL0030995	IL0034836
Sample Date		Client Info		30 May 2024	15 Mar 2024	07 Feb 2024
Machine Age	mls	Client Info		553452	525332	510474
Oil Age	mls	Client Info		10424	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	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	46	40	19
Chromium	ppm	ASTM D5185m	>20	2	2	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	17	▲ 27	11
Lead	ppm	ASTM D5185m	>40	2	4	<1
Copper	ppm	ASTM D5185m	>330	1	1	<1
Tin	ppm	ASTM D5185m	>15	0	1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

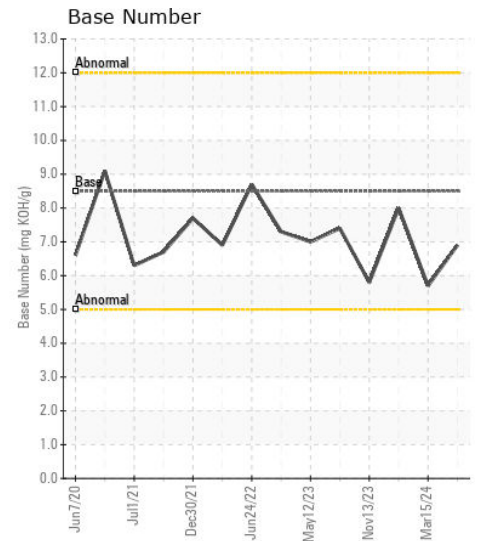
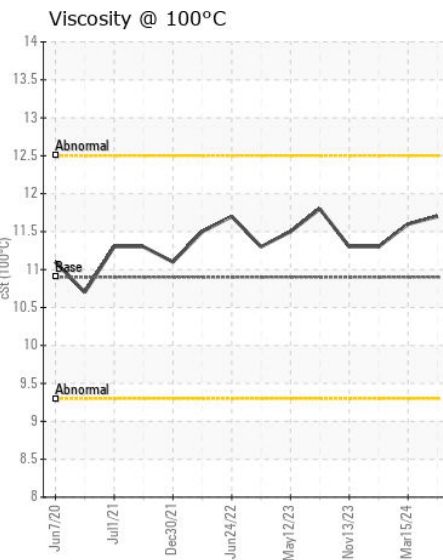
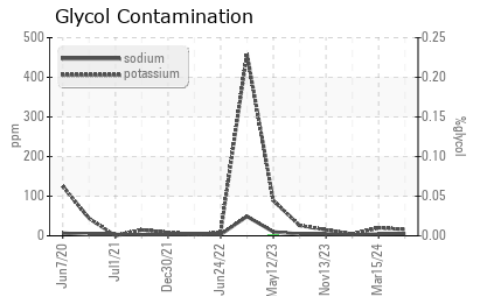
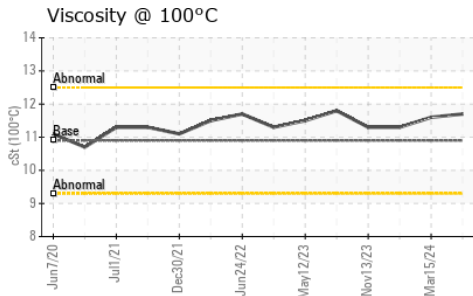
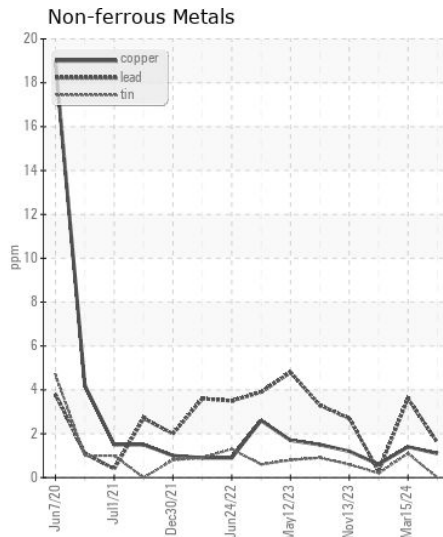
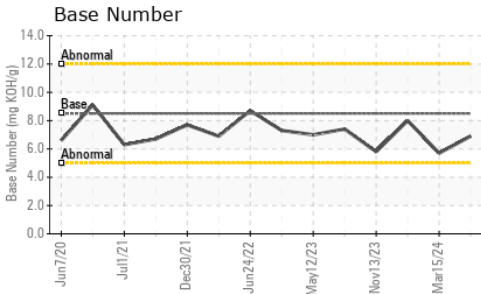
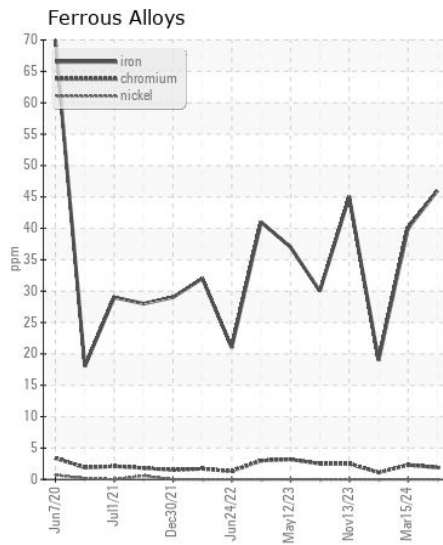
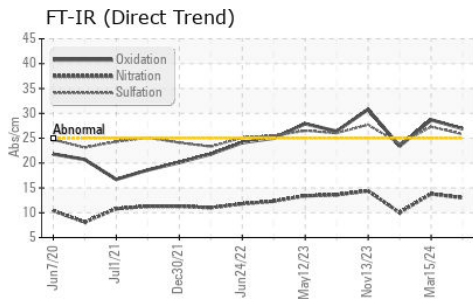
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	9	8
Potassium	ppm	ASTM D5185m	>20	16	20	4
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.9	1	0.5
Nitration	Abs/cm	*ASTM D7624	>20	13.0	13.8	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.8	27.3	23.9
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		5	4	3
Boron	ppm	ASTM D5185m	250	32	26	42
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	59	46	43
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m	450	578	547	529
Calcium	ppm	ASTM D5185m	3000	1996	1769	1697
Phosphorus	ppm	ASTM D5185m	1150	889	801	781
Zinc	ppm	ASTM D5185m	1350	1047	953	932
Sulfur	ppm	ASTM D5185m	4250	2937	2688	2305
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.9	28.7	23.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.9	5.7	8.0
Visc @ 100°C	cSt	ASTM D445	10.9	11.7	11.6	11.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0035807 **Received** : 28 Jun 2024
Lab Number : 06223230 **Tested** : 30 Jun 2024
Unique Number : 11101427 **Diagnosed** : 30 Jun 2024 - Don Baldrige
Test Package : FLEET (Additional Tests: Glycol)

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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