



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
14500
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0936778	WC0915994	WC0882345
Sample Date		Client Info		03 Jul 2024	06 Mar 2024	14 Dec 2023
Machine Age	mls	Client Info		134199	124087	116903
Oil Age	mls	Client Info		6917	0	0
Filter Age	mls	Client Info		6917	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	28	23	46
Chromium	ppm	ASTM D5185m	>20	2	2	1
Nickel	ppm	ASTM D5185m	>4	1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	21	23	8
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	1	<1	2
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

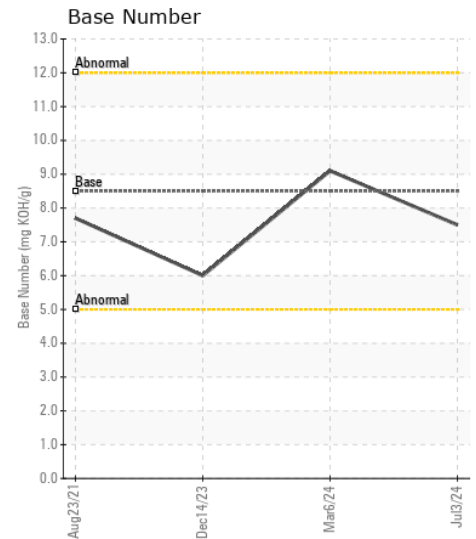
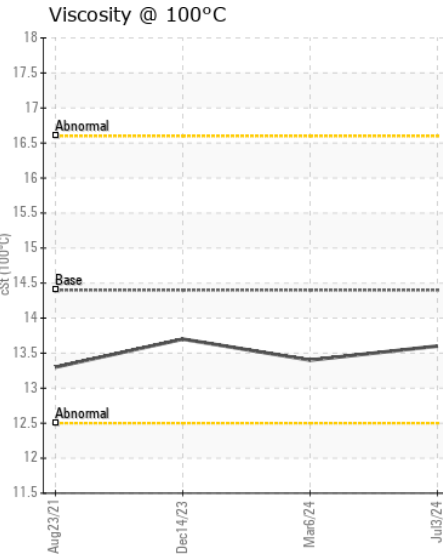
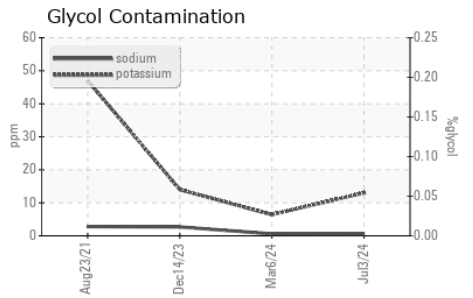
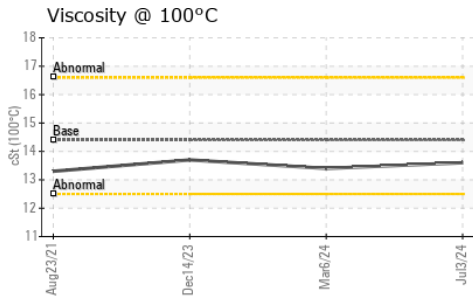
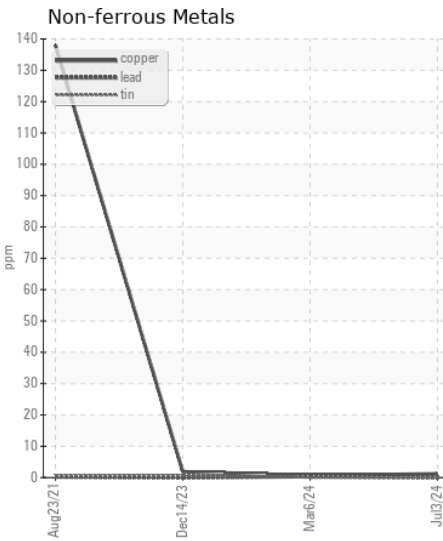
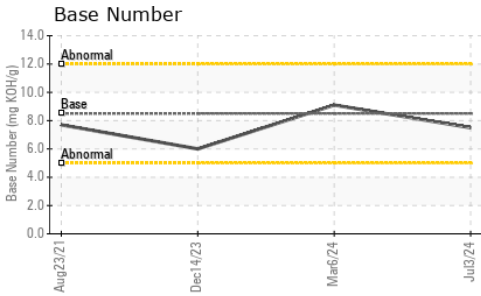
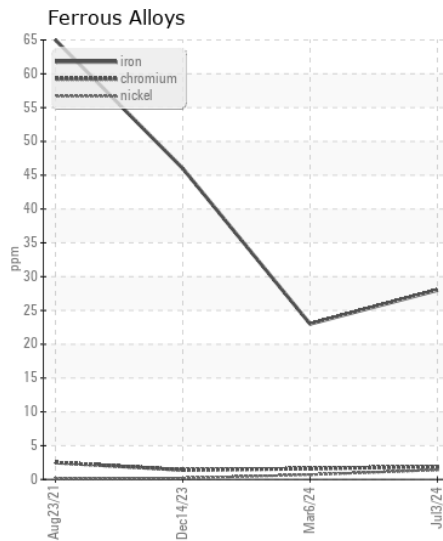
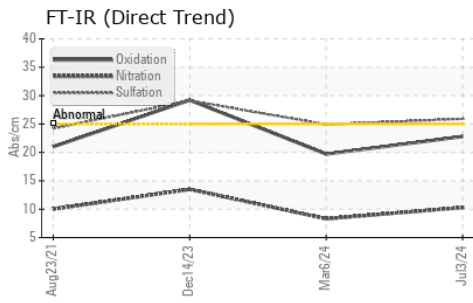
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	7	8	11
Potassium	ppm	ASTM D5185m	>20	13	6	14
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	0.4	0.3	0.6
Nitration	Abs/cm	*ASTM D7624	>20	10.3	8.3	13.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.9	24.9	29.1
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>158	<1	<1	3
Boron	ppm	ASTM D5185m	250	232	301	30
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	130	121	69
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	594	701	913
Calcium	ppm	ASTM D5185m	3000	1709	1524	1709
Phosphorus	ppm	ASTM D5185m	1150	927	748	1264
Zinc	ppm	ASTM D5185m	1350	1098	875	1549
Sulfur	ppm	ASTM D5185m	4250	2546	2806	3424
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.8	19.7	29.2
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.5	9.1	6.0
Visc @ 100°C	cSt	ASTM D445	14.4	13.6	13.4	13.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0936778 **Received** : 12 Jul 2024
Lab Number : 06234685 **Tested** : 15 Jul 2024
Unique Number : 11123519 **Diagnosed** : 15 Jul 2024 - Don Baldrige
Test Package : FLEET (Additional Tests: Glycol)

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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)