



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
133
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0719779	WC0719765	WC0537558
Sample Date		Client Info		18 Jan 2024	18 Dec 2023	19 Nov 2021
Machine Age	mls	Client Info		39913	39183	1477
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	29	141	45
Chromium	ppm	ASTM D5185m	>20	<1	2	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	1
Aluminum	ppm	ASTM D5185m	>20	3	8	5
Lead	ppm	ASTM D5185m	>40	<1	4	1
Copper	ppm	ASTM D5185m	>330	10	65	192
Tin	ppm	ASTM D5185m	>15	<1	4	2
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

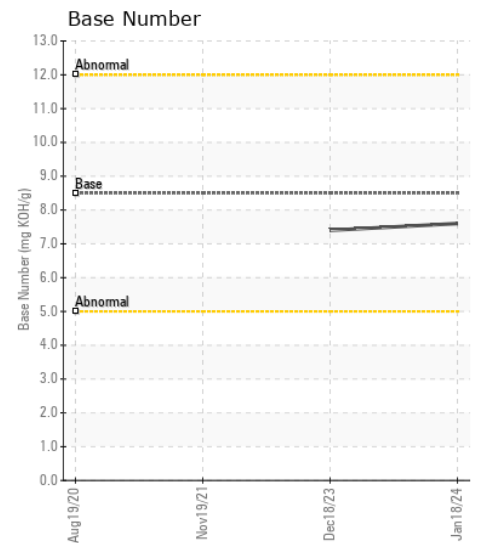
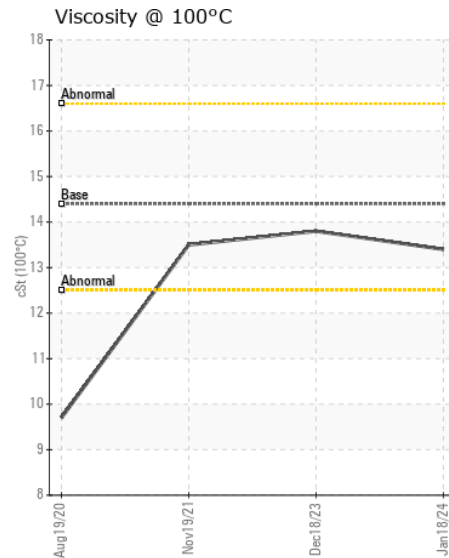
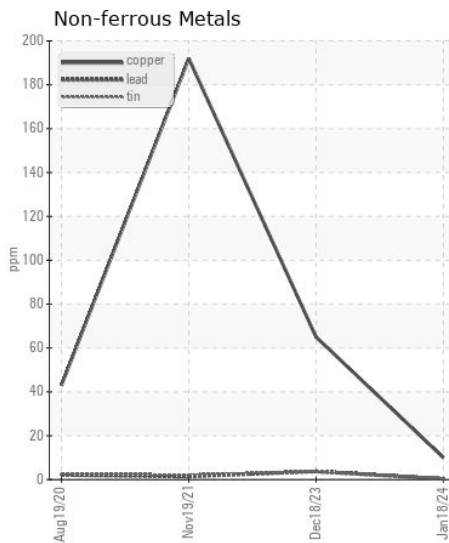
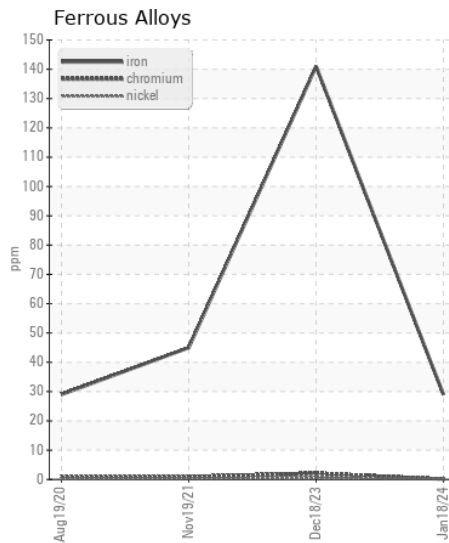
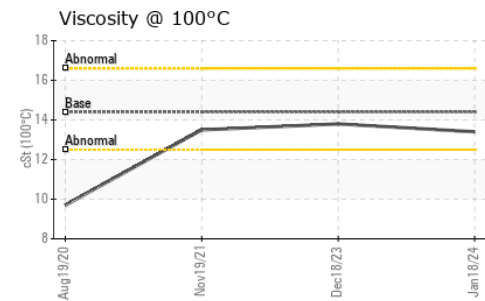
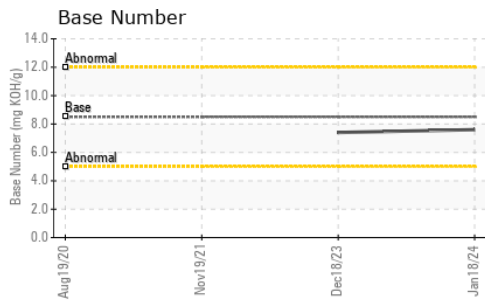
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	13	9
Potassium	ppm	ASTM D5185m	>20	2	4	2
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	0.4	1.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	7.0	12.7	9
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.2	25.7	20.5
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	>216	2	5	<1
Boron	ppm	ASTM D5185m	250	0	<1	6
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	0	2	6
Manganese	ppm	ASTM D5185m		<1	2	1
Magnesium	ppm	ASTM D5185m	450	28	15	19
Calcium	ppm	ASTM D5185m	3000	2326	2453	2520
Phosphorus	ppm	ASTM D5185m	1150	932	1053	969
Zinc	ppm	ASTM D5185m	1350	1121	1201	1031
Sulfur	ppm	ASTM D5185m	4250	3813	3585	3126
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.4	17.5	13.3
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.6	7.4	---
Visc @ 100°C	cSt	ASTM D445	14.4	13.4	13.8	13.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0719779
Lab Number : 06087948
Unique Number : 10875393
Test Package : FLEET

Received : 13 Feb 2024
Tested : 14 Feb 2024
Diagnosed : 15 Feb 2024 - Don Baldrige

ALMSTEAD TREE & SHRUB CARE CO
 58 BEECHWOOD AVE
 NEW ROCHELLE, NY
 US 10801
 Contact:

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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F: