



WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
108
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		WC0719761	WC0537554	WCM1371163
Sample Date		Client Info		20 Dec 2023	07 Jan 2022	07 Oct 2020
Machine Age	mls	Client Info		28814	0	7543
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	79	▲ 106	36
Chromium	ppm	ASTM D5185m	>20	2	2	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	17	20	2
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	9	11	4
Tin	ppm	ASTM D5185m	>15	1	<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

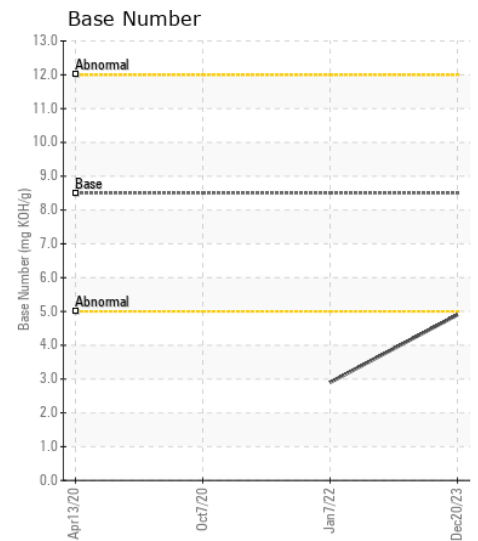
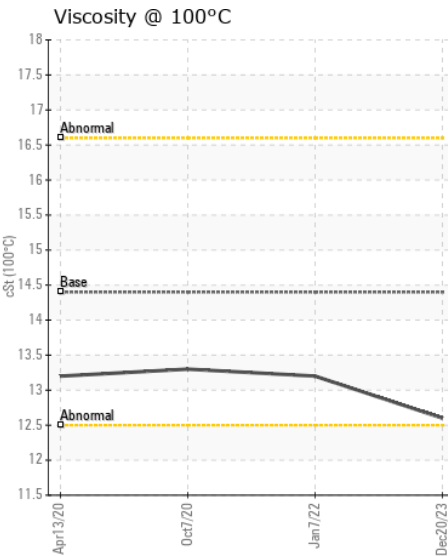
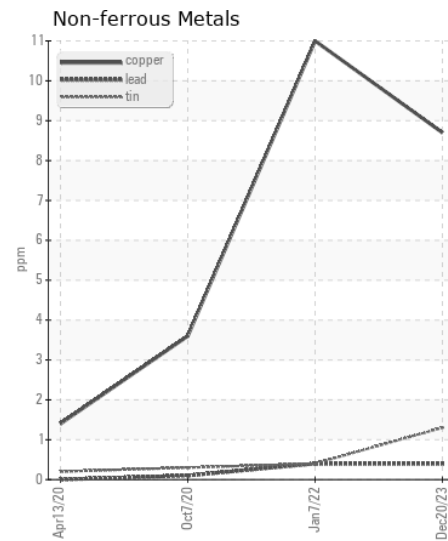
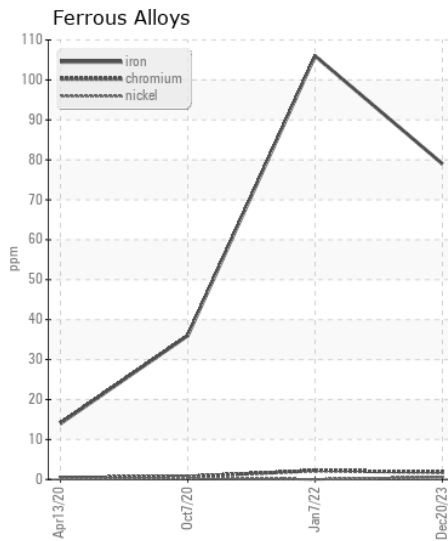
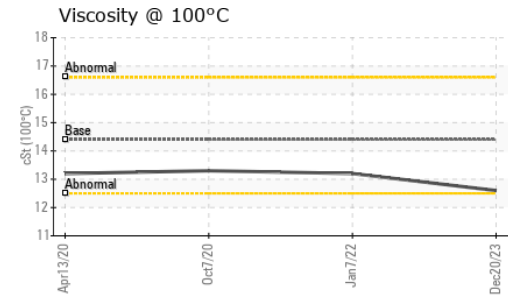
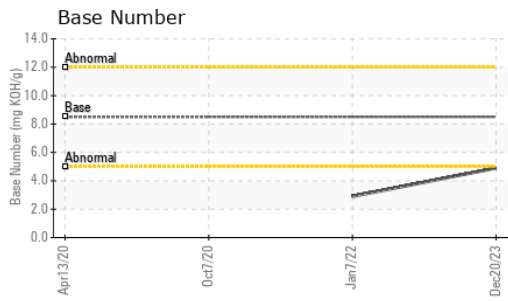
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	9	6
Potassium	ppm	ASTM D5185m	>20	30	34	14
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	*ASTM D7844	>3	1.4	1.4	0.7
Nitration	Abs/cm	*ASTM D7624	>20	14.2	15.3	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	44.4	36.7	26
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	>216	9	5	3
Boron	ppm	ASTM D5185m	250	0	2	6
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	97	1	2
Manganese	ppm	ASTM D5185m		1	1	<1
Magnesium	ppm	ASTM D5185m	450	14	16	19
Calcium	ppm	ASTM D5185m	3000	3001	2240	2247
Phosphorus	ppm	ASTM D5185m	1150	1147	785	830
Zinc	ppm	ASTM D5185m	1350	1285	989	947
Sulfur	ppm	ASTM D5185m	4250	12661	3156	3027
Oxidation	Abs/.1mm	*ASTM D7414	>25	33.4	32.9	19
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	4.9	▲ 2.9	---
Visc @ 100°C	cSt	ASTM D445	14.4	12.6	13.2	13.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0719761 **Received** : 16 Jan 2024
Lab Number : 06060580 **Diagnosed** : 16 Jan 2024
Unique Number : 10831962 **Diagnostician** : Don Baldridge
Test Package : FLEET

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: