



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
TAKEUCHI LB-62

Component
Diesel Engine

Fluid
FLEETLINE SUPERFLEET XHD 15W40 (2 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LP0000768	LP0000366	WC0721189
Sample Date		Client Info		07 Dec 2023	25 Jun 2023	22 Sep 2022
Machine Age	hrs	Client Info		1820	1623	1245
Oil Age	hrs	Client Info		257	378	234
Filter Age	hrs	Client Info		257	378	234
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	>250	36	37	19
Chromium	ppm	ASTM D5185m	>10	2	2	1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>35	8	8	2
Lead	ppm	ASTM D5185m	>100	0	0	<1
Copper	ppm	ASTM D5185m	>60	3	2	2
Tin	ppm	ASTM D5185m	>5	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

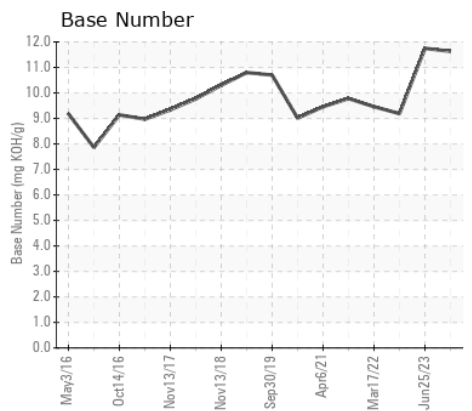
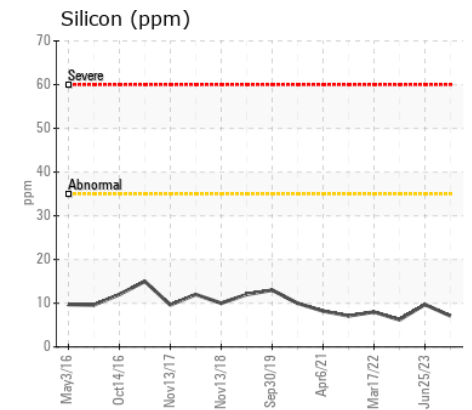
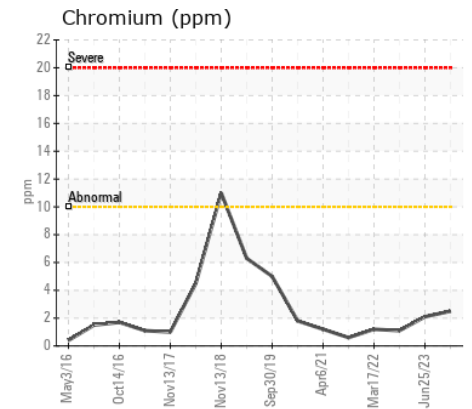
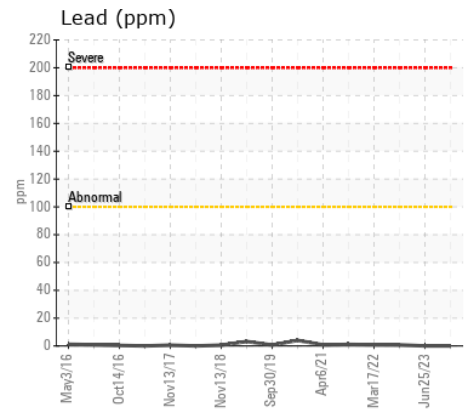
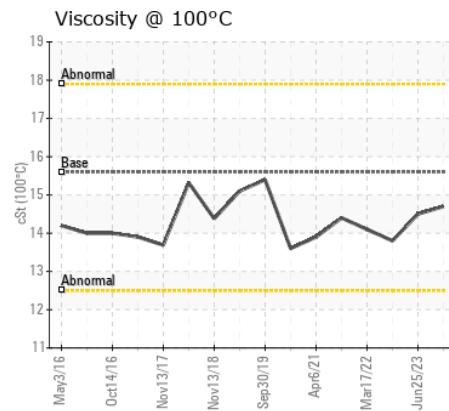
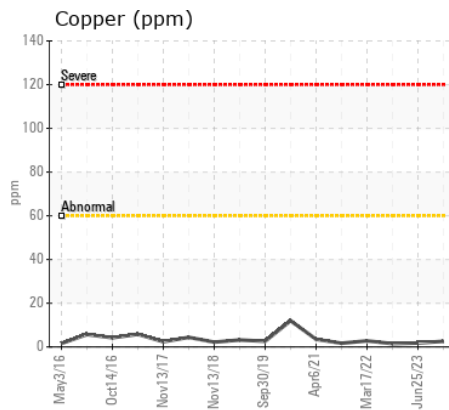
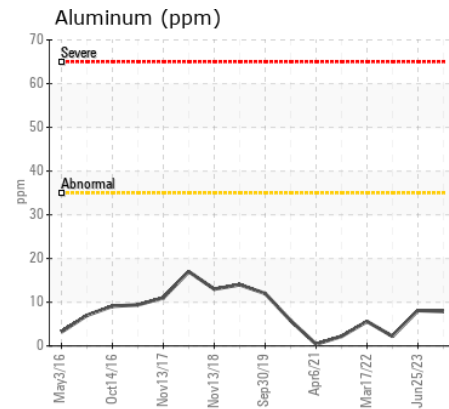
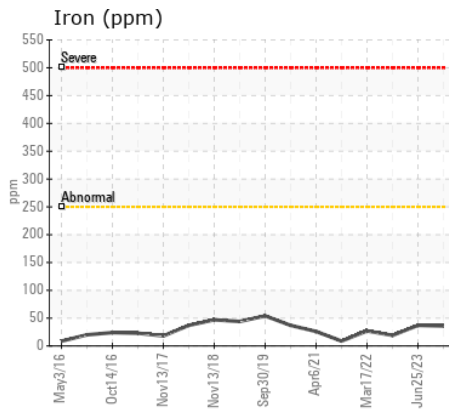
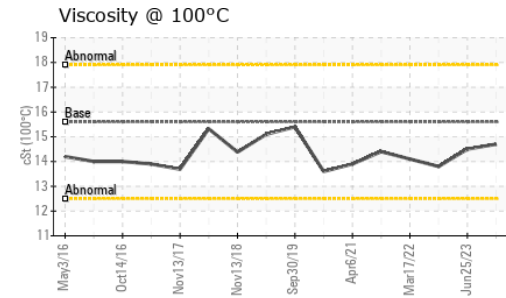
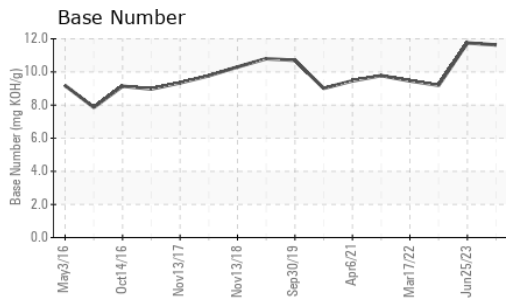
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	7	10	6
Potassium	ppm	ASTM D5185m	>20	0	<1	1
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	1.4	1	0.5
Nitration	Abs/cm	*ASTM D7624	>20	8.1	8.0	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	20.8	19.7
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		0	2	1
Boron	ppm	ASTM D5185m		3	8	8
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		54	65	51
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		828	1009	847
Calcium	ppm	ASTM D5185m		1529	1169	1109
Phosphorus	ppm	ASTM D5185m		1092	1051	873
Zinc	ppm	ASTM D5185m		1308	1278	1097
Sulfur	ppm	ASTM D5185m		3080	3563	3167
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	16.1	14.8
Base Number (BN)	mg KOH/g	ASTM D2896		11.63	11.75	9.19
Visc @ 100°C	cSt	ASTM D445	15.6	14.7	14.5	13.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LP0000768 **Received** : 16 Jan 2024
Lab Number : 06061388 **Diagnosed** : 17 Jan 2024
Unique Number : 10832770 **Diagnostician** : Wes Davis
Test Package : MOB 2

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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)