



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
LT-300
 Component
Diesel Engine
 Fluid
FLEETLINE SUPERFLEET XHD 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LP0000496	LP0000627	WC0661775
Sample Date		Client Info		15 Aug 2023	25 Jun 2023	27 Apr 2023
Machine Age	hrs	Client Info		3435	3276	2951
Oil Age	hrs	Client Info		159	87	189
Filter Age	hrs	Client Info		159	87	189
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	13	24	9
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	3	4	2
Lead	ppm	ASTM D5185m	>40	2	3	0
Copper	ppm	ASTM D5185m	>330	32	42	4
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

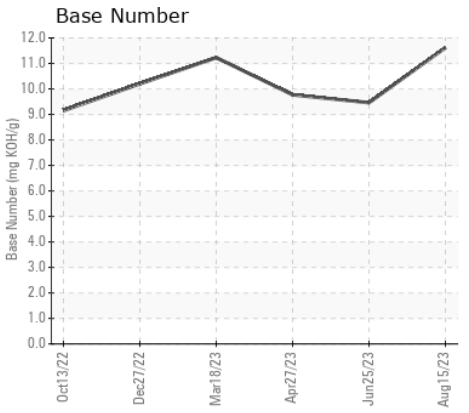
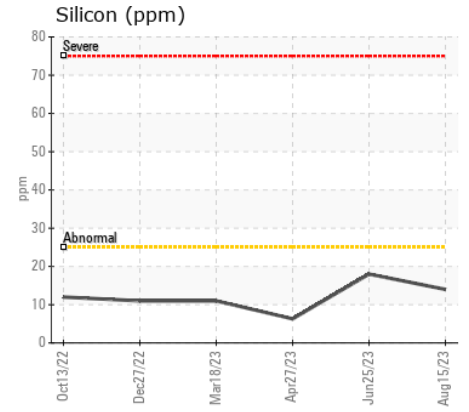
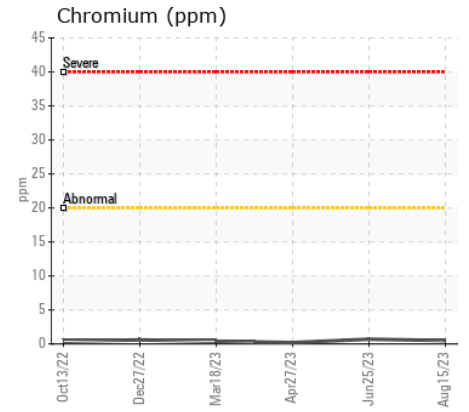
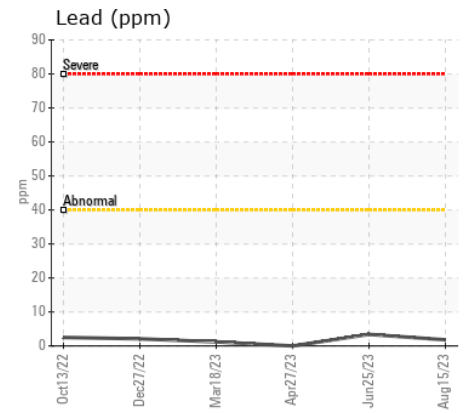
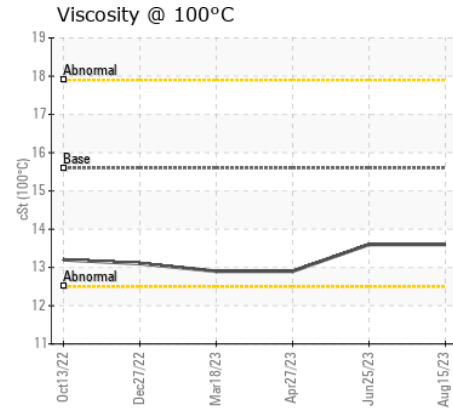
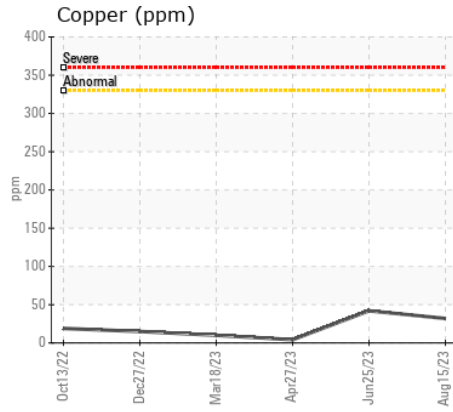
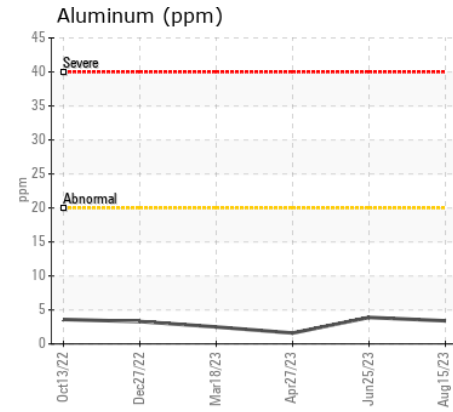
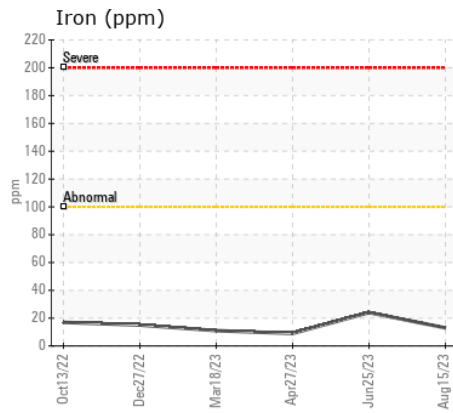
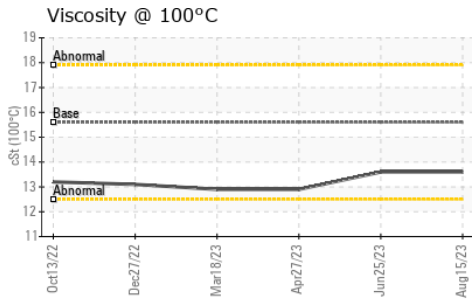
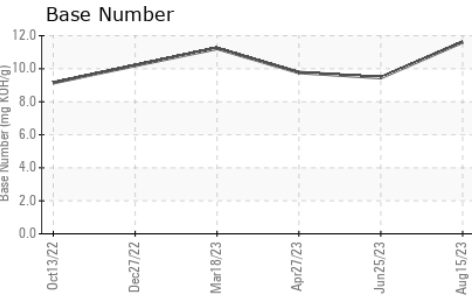
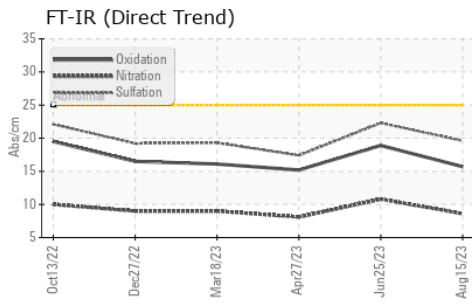
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	14	18	6
Potassium	ppm	ASTM D5185m	>20	4	3	0
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	0.2	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.6	10.8	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	22.3	17.4
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	0	<1
Boron	ppm	ASTM D5185m		17	20	16
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		67	74	61
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		782	760	888
Calcium	ppm	ASTM D5185m		1312	1436	1177
Phosphorus	ppm	ASTM D5185m		1066	1097	1047
Zinc	ppm	ASTM D5185m		1274	1286	1280
Sulfur	ppm	ASTM D5185m		3551	3423	3739
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	18.9	15.2
Base Number (BN)	mg KOH/g	ASTM D2896		11.62	9.46	9.77
Visc @ 100°C	cSt	ASTM D445	15.6	13.6	13.6	12.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LP0000496
Lab Number : 05928879
Unique Number : 10608826
Test Package : MOB 2

Received : 18 Aug 2023
Tested : 21 Aug 2023
Diagnosed : 21 Aug 2023 - Wes Davis

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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)