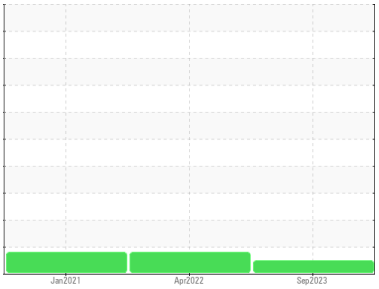
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
3460L
Component
Front Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- QTS)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the oil.

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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**IL0032465**	IL0023858	IL0017517
Sample Date		Client Info		**11 Sep 2023**	11 Apr 2022	12 Jan 2021
Machine Age	mls	Client Info		**53316**	35599	15000
Oil Age	mls	Client Info		**15000**	15000	15000
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	ABNORMAL	MARGINAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	**<1.0**	<1.0	▲ 3.6
Glycol		WC Method		**NEG**	NEG	0.0

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	**55**	▲ 332	198
Chromium	ppm	ASTM D5185m	>20	**<1**	4	2
Nickel	ppm	ASTM D5185m	>4	**0**	0	1
Titanium	ppm	ASTM D5185m		**0**	<1	<1
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**11**	32	33
Lead	ppm	ASTM D5185m	>40	**0**	<1	2
Copper	ppm	ASTM D5185m	>330	**1**	11	28
Tin	ppm	ASTM D5185m	>15	**<1**	<1	2
Antimony	ppm	ASTM D5185m		**---**	---	0
Vanadium	ppm	ASTM D5185m		**0**	<1	0
Cadmium	ppm	ASTM D5185m		**0**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	**0**	30	4
Barium	ppm	ASTM D5185m	10	**0**	0	1
Molybdenum	ppm	ASTM D5185m	100	**60**	42	57
Manganese	ppm	ASTM D5185m		**<1**	3	3
Magnesium	ppm	ASTM D5185m	450	**981**	504	396
Calcium	ppm	ASTM D5185m	3000	**1088**	1770	1755
Phosphorus	ppm	ASTM D5185m	1150	**937**	825	926
Zinc	ppm	ASTM D5185m	1350	**1218**	1027	1162
Sulfur	ppm	ASTM D5185m	4250	**3145**	2112	2378

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**5**	16	18
Sodium	ppm	ASTM D5185m	>158	**1**	2	3
Potassium	ppm	ASTM D5185m	>20	**13**	46	81

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**1.4**	2.8	1.3
Nitration	Abs/cm	*ASTM D7624	>20	**13.3**	22.5	13.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	**26.6**	39.1	29

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**26.4**	48.0	25.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	**6.3**	5.6	5.4

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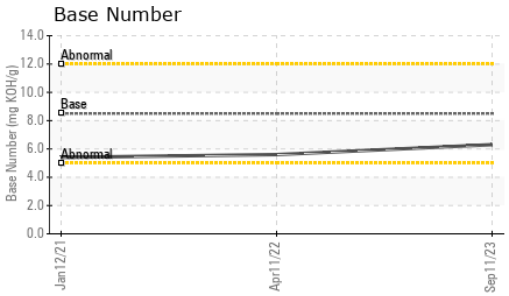
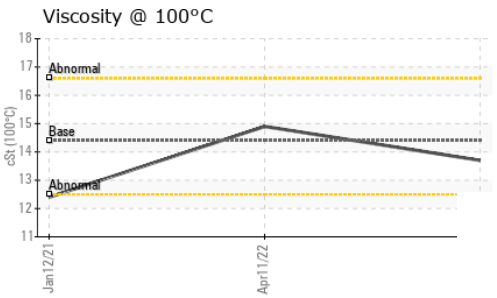
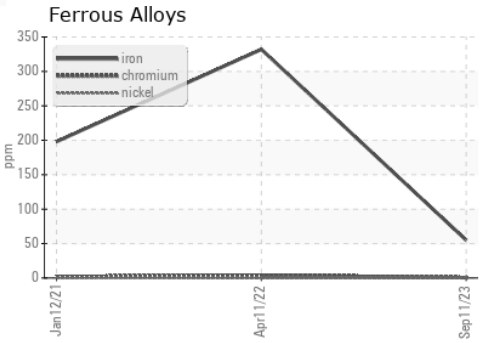


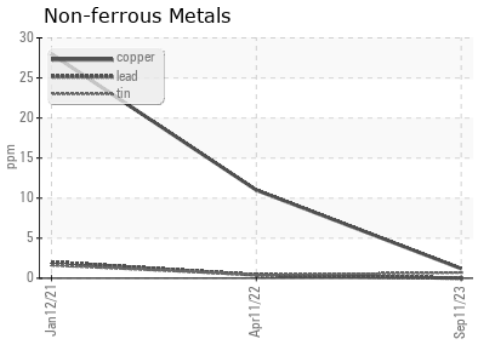


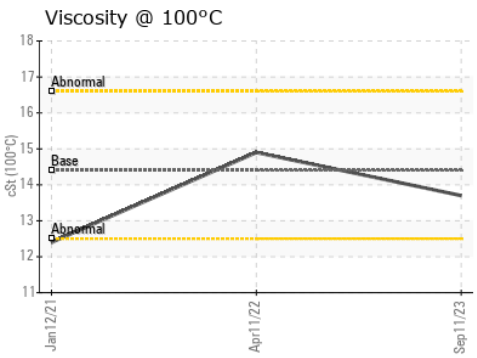
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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
Free Water	scalar	*Visual		**NEG**	NEG	NEG

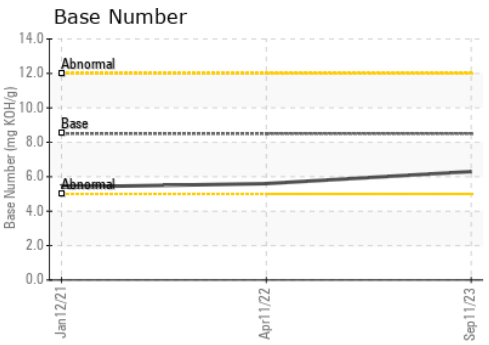
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	**13.7**	14.9	12.4

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0032465
Lab Number : 05962000
Unique Number : 10668551
Test Package : FLEET

Received : 27 Sep 2023
Diagnosed : 28 Sep 2023
Diagnostician : Don Baldridge

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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