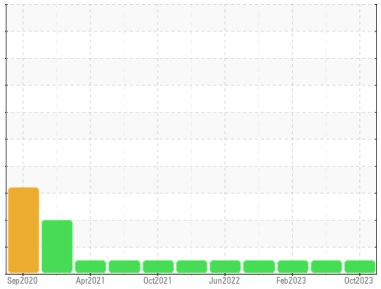
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
112238
Component
Diesel Engine
Fluid
SHELL ROTELLA T 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 suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**IL0032763**	IL0027497	IL0027424
Sample Date		Client Info		**26 Oct 2023**	23 Jun 2023	28 Feb 2023
Machine Age	mls	Client Info		**447847**	406558	369044
Oil Age	mls	Client Info		**41289**	37514	42574
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	**<1.0**	<1.0	<1.0
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	**34**	23	43
Chromium	ppm	ASTM D5185m	>20	**<1**	<1	2
Nickel	ppm	ASTM D5185m	>2	**0**	0	0
Titanium	ppm	ASTM D5185m	>2	**<1**	<1	<1
Silver	ppm	ASTM D5185m	>2	**<1**	0	0
Aluminum	ppm	ASTM D5185m	>20	**4**	1	7
Lead	ppm	ASTM D5185m	>40	**<1**	<1	3
Copper	ppm	ASTM D5185m	>330	**<1**	<1	<1
Tin	ppm	ASTM D5185m	>15	**1**	<1	<1
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	316	**34**	42	35
Barium	ppm	ASTM D5185m	0.0	**20**	11	0
Molybdenum	ppm	ASTM D5185m	1.2	**36**	23	66
Manganese	ppm	ASTM D5185m		**<1**	<1	1
Magnesium	ppm	ASTM D5185m	24	**177**	136	53
Calcium	ppm	ASTM D5185m	2292	**1941**	1728	2244
Phosphorus	ppm	ASTM D5185m	1064	**967**	806	949
Zinc	ppm	ASTM D5185m	1160	**1180**	1039	1265
Sulfur	ppm	ASTM D5185m	4996	**4261**	3122	3729

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**5**	5	7
Sodium	ppm	ASTM D5185m		**5**	2	3
Potassium	ppm	ASTM D5185m	>20	**15**	8	14

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	**0.6**	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	**11.4**	11.7	12.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	**26.7**	27.3	27.4

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**22.8**	23.3	22.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	**5.0**	5.8	5.2

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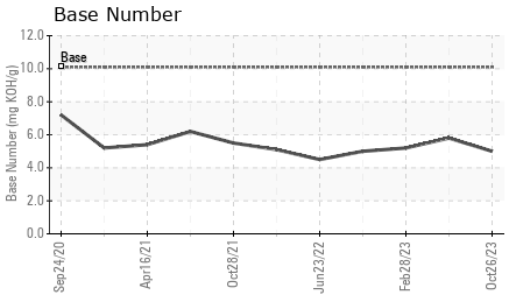
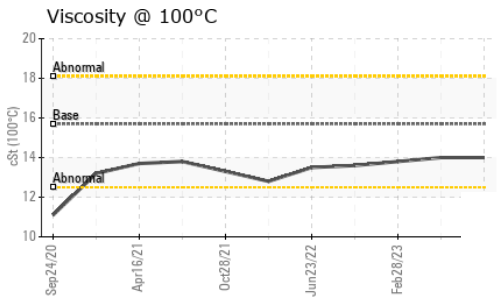
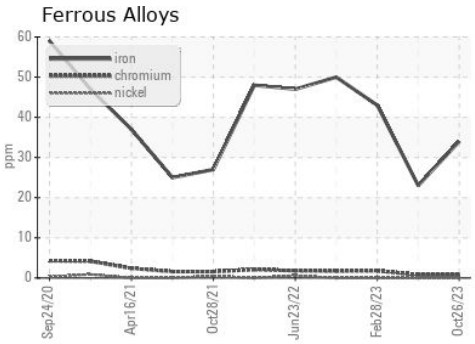


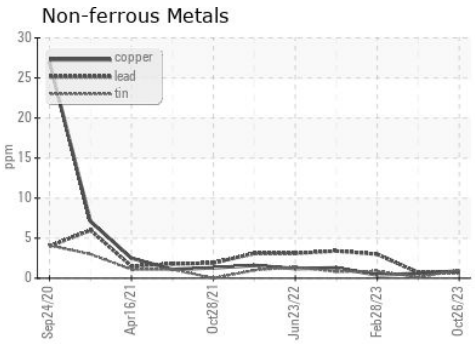


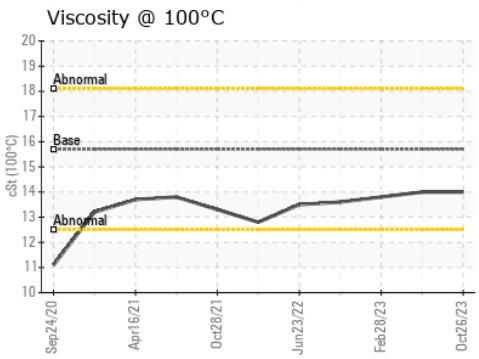
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

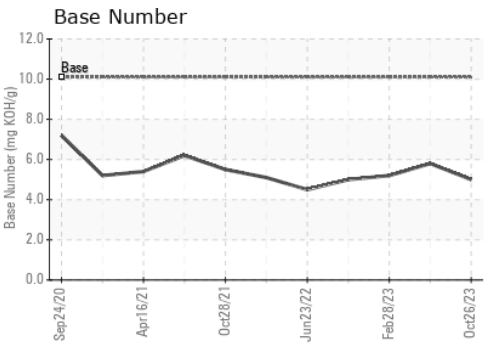
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.7	**14.0**	14.0	13.8

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0032763
Lab Number : 05993998
Unique Number : 10722358
Test Package : FLEET

Received : 31 Oct 2023
Diagnosed : 01 Nov 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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