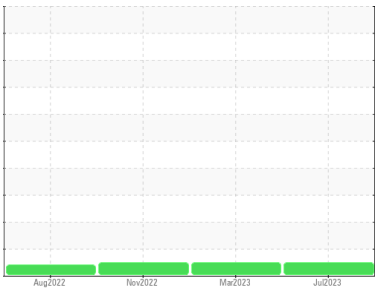
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
115728
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		**IL0027482**	IL0027427	IL0027706
Sample Date		Client Info		**10 Jul 2023**	08 Mar 2023	18 Nov 2022
Machine Age	mls	Client Info		**85726**	62658	38520
Oil Age	mls	Client Info		**23068**	24138	18583
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**	42	38
Chromium	ppm	ASTM D5185m	>20	**3**	4	3
Nickel	ppm	ASTM D5185m	>2	**0**	0	0
Titanium	ppm	ASTM D5185m	>2	**0**	<1	0
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**34**	35	62
Lead	ppm	ASTM D5185m	>40	**0**	0	0
Copper	ppm	ASTM D5185m	>330	**2**	2	5
Tin	ppm	ASTM D5185m	>15	**0**	<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	**26**	33	36
Barium	ppm	ASTM D5185m	0.0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	1.2	**39**	80	89
Manganese	ppm	ASTM D5185m		**1**	2	1
Magnesium	ppm	ASTM D5185m	24	**149**	64	89
Calcium	ppm	ASTM D5185m	2292	**2206**	2035	2146
Phosphorus	ppm	ASTM D5185m	1064	**988**	886	964
Zinc	ppm	ASTM D5185m	1160	**1264**	1151	1177
Sulfur	ppm	ASTM D5185m	4996	**4009**	3533	3730

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**9**	11	12
Sodium	ppm	ASTM D5185m		**2**	3	2
Potassium	ppm	ASTM D5185m	>20	**48**	40	120

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	**0.7**	0.8	0.6
Nitration	Abs/cm	*ASTM D7624	>20	**10.6**	11.1	12.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	**23.6**	22.8	23.4

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**19.7**	18.3	17.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	**6**	5.9	6.6

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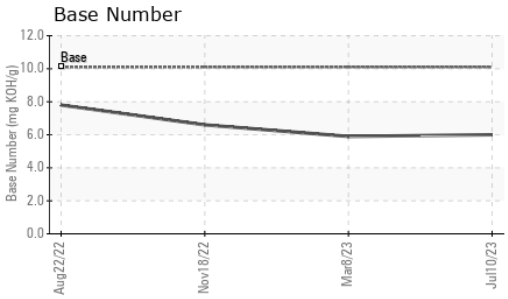
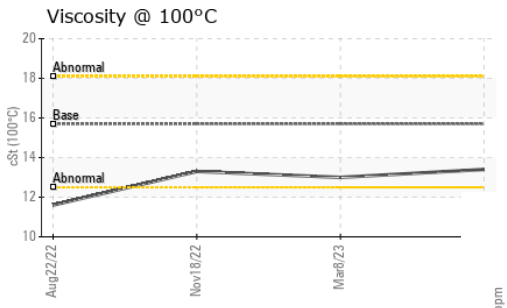
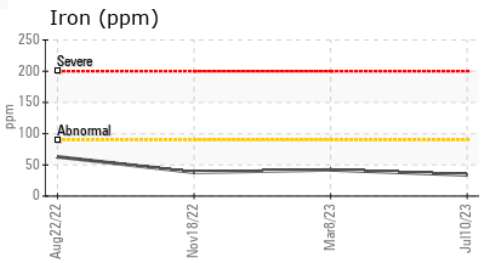


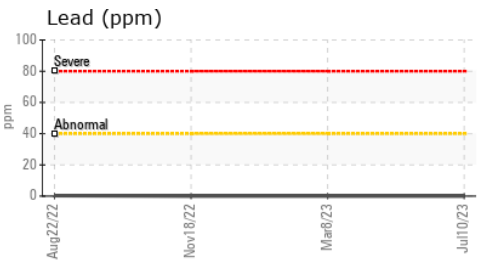


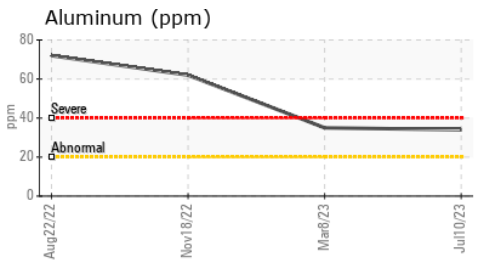
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

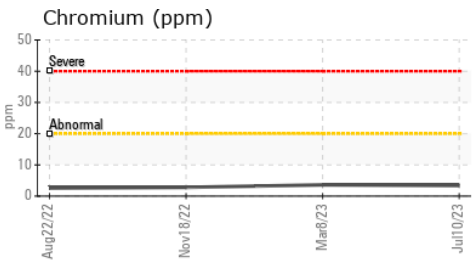
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.7	**13.4**	13.0	13.3

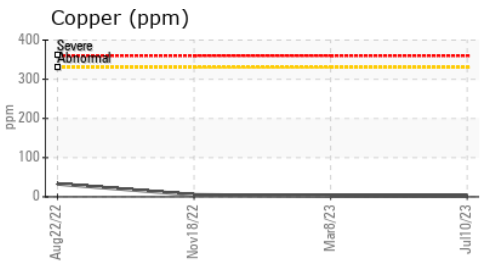
GRAPHS

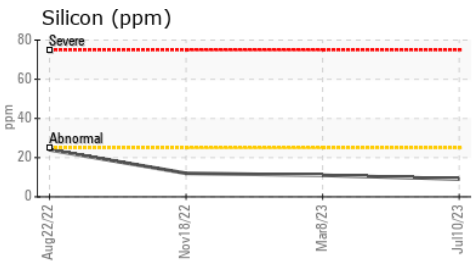


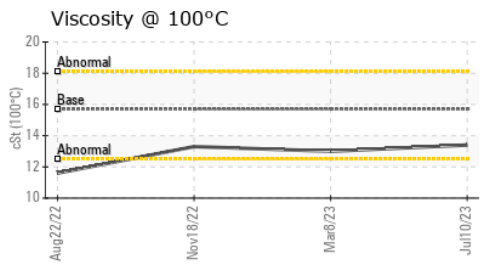


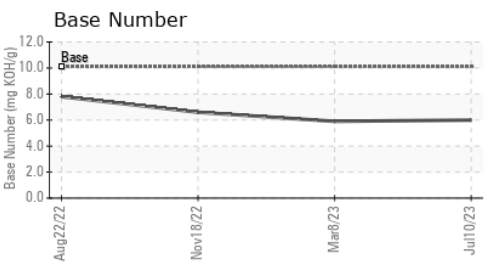












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0027482
Lab Number : 05901014
Unique Number : 10562370
Test Package : MOB1+

Received : 18 Jul 2023
Diagnosed : 19 Jul 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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