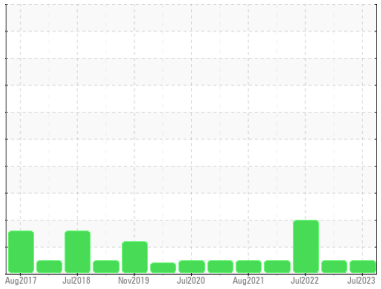
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
63
Machine Id
[63] A63 SPQ 1 Fire Pump
Component
Diesel Engine
Fluid
HIGH PERFORMANCE LUBRICANTS HDMO 15W40 (8 GAL)

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		**HPL0003595**	HPL0001736	HPL0000462
Sample Date		Client Info		**13 Jul 2023**	06 Dec 2022	25 Jul 2022
Machine Age	hrs	Client Info		**86**	84	79
Oil Age	hrs	Client Info		**6**	4	15
Oil Changed		Client Info		**Not Changd**	Changed	Not Changd
Sample Status				**NORMAL**	NORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	**<1.0**	<1.0	<1.0
Glycol		WC Method		**NEG**	NEG	0.0

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	**3**	8	9
Chromium	ppm	ASTM D5185m	>20	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>2	**0**	0	0
Titanium	ppm	ASTM D5185m	>2	**<1**	<1	<1
Silver	ppm	ASTM D5185m	>2	**0**	<1	<1
Aluminum	ppm	ASTM D5185m	>20	**4**	2	3
Lead	ppm	ASTM D5185m	>40	**2**	7	6
Copper	ppm	ASTM D5185m	>330	**84**	146	126
Tin	ppm	ASTM D5185m	>15	**<1**	1	1
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	<1	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	200	**28**	145	149
Barium	ppm	ASTM D5185m		**2**	0	<1
Molybdenum	ppm	ASTM D5185m	85	**478**	44	40
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	525	**862**	344	324
Calcium	ppm	ASTM D5185m	4300	**2485**	2486	2266
Phosphorus	ppm	ASTM D5185m	1000	**1002**	781	747
Zinc	ppm	ASTM D5185m	1100	**1169**	893	891
Sulfur	ppm	ASTM D5185m	20200	**9101**	10996	10461

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**20**	2	5
Sodium	ppm	ASTM D5185m		**10**	45	51
Potassium	ppm	ASTM D5185m	>20	**2**	0	4

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	**0.1**	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	**7.2**	6.6	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	**34.6**	21.3	18.9

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**33.6**	13.2	12.2
Base Number (BN)	mg KOH/g	ASTM D2896	14.5	**14.31**	10.07	9.00

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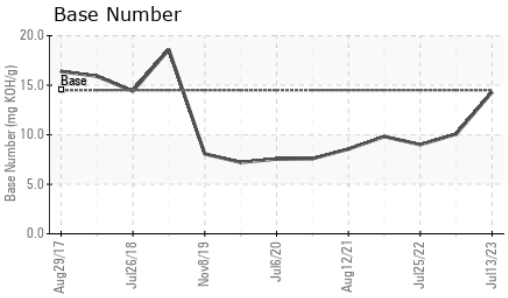
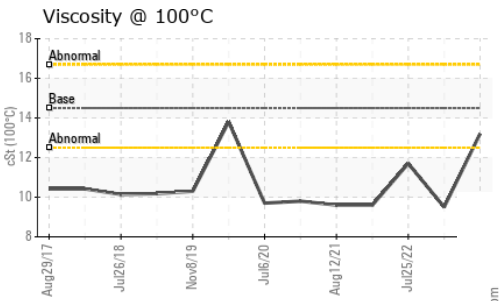
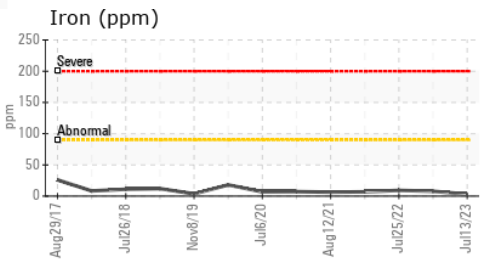


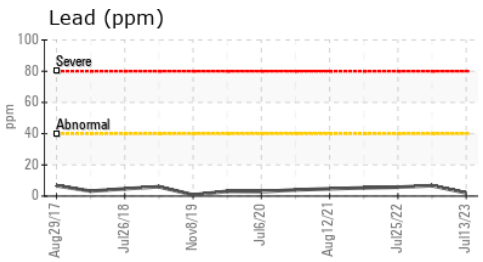


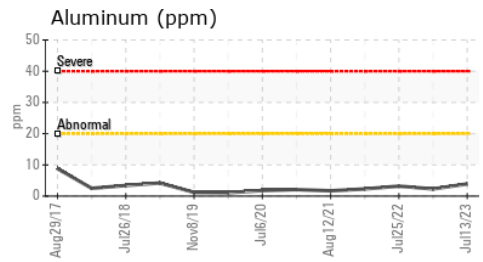
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	▲ MODER
Sand/Dirt	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	▲ 0.2%
Free Water	scalar	*Visual		**NEG**	NEG	NEG

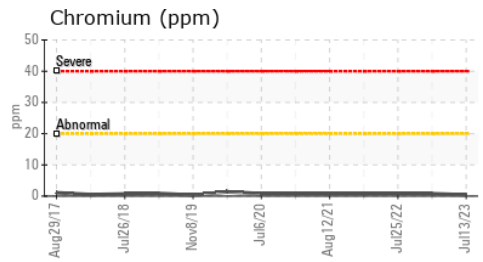
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.5	**13.2**	9.5	11.7

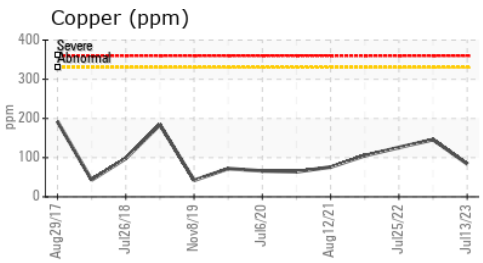
GRAPHS

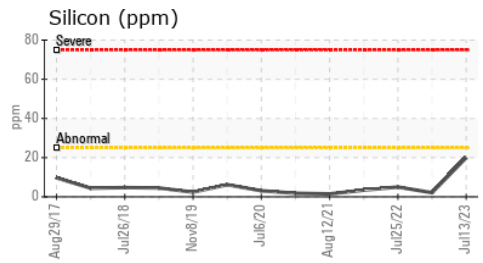


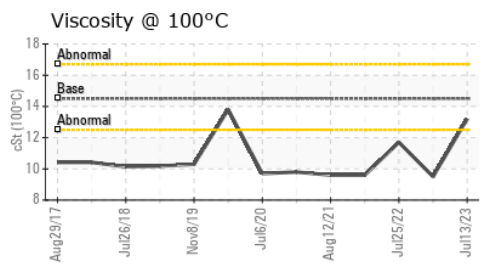


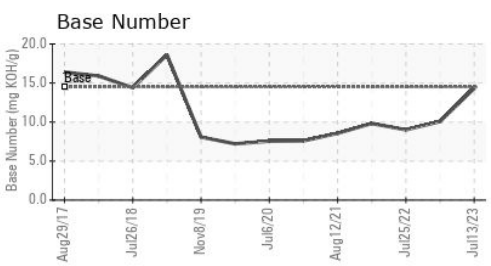












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : HPL0003595
Lab Number : 05901455
Unique Number : 10562811
Test Package : MOB 2

Received : 18 Jul 2023
Diagnosed : 26 Jul 2023
Diagnostician : Doug Bogart

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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