



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

KEMP QUARRIES / RIVER VALLEY OZARK

Machine Id

WL091

Component

Diesel Engine

Fluid

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0086938	PCA0084552	PCA0086183
Sample Date		Client Info		16 Apr 2024	19 Jul 2023	13 Jan 2023
Machine Age	hrs	Client Info		25576	15252	24686
Oil Age	hrs	Client Info		160060	15252	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	49	57	28
Chromium	ppm	ASTM D5185m	>20	7	6	2
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	2
Lead	ppm	ASTM D5185m	>40	5	13	6
Copper	ppm	ASTM D5185m	>330	3	5	2
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

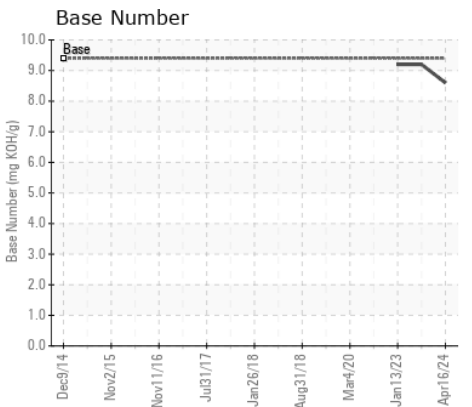
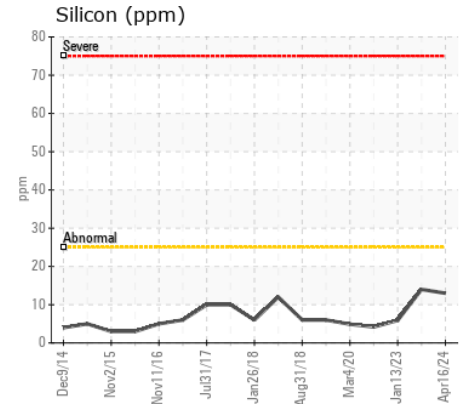
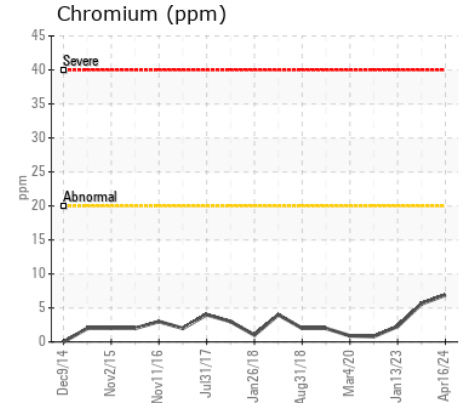
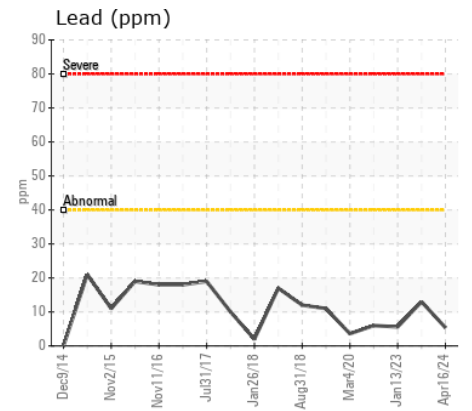
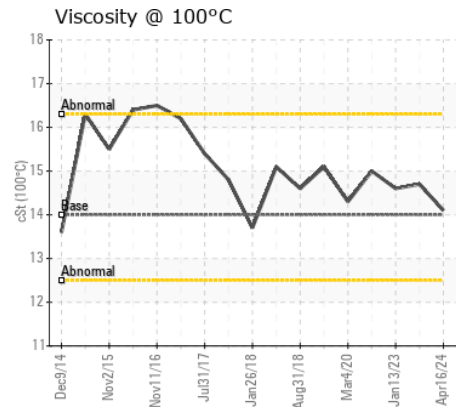
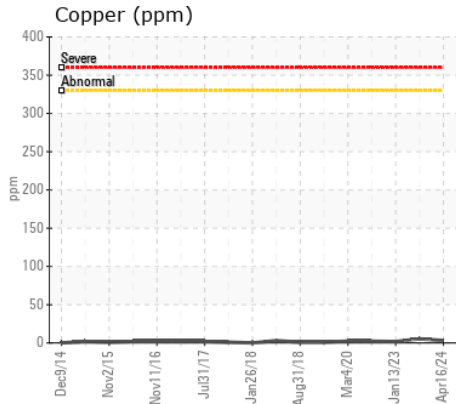
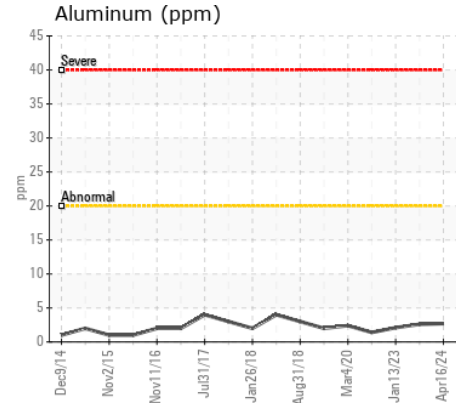
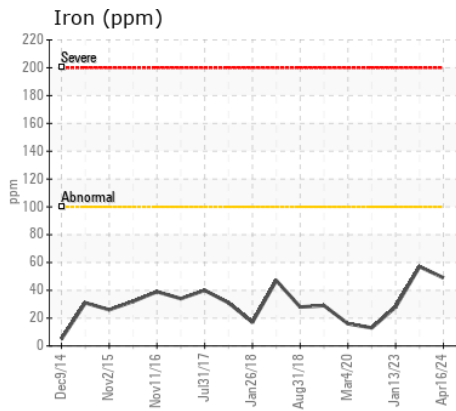
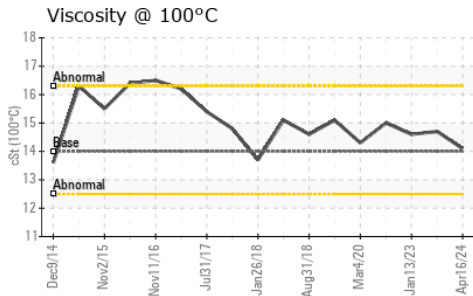
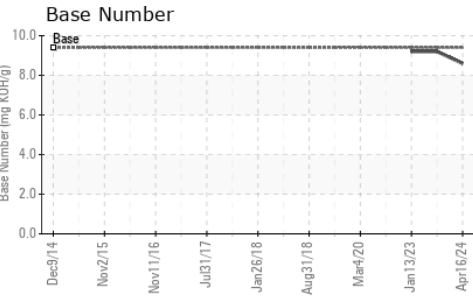
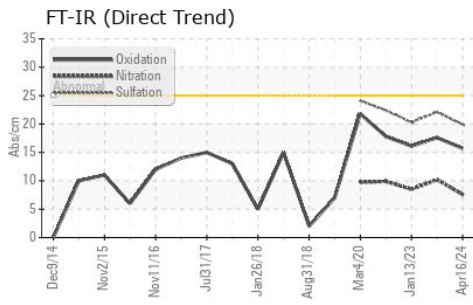
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	13	14	6
Potassium	ppm	ASTM D5185m	>20	3	0	<1
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	0.7	1.3	0.8
Nitration	Abs/cm	*ASTM D7624	>20	7.6	10.2	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	22.1	20.3
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		2	3	1
Boron	ppm	ASTM D5185m	0	1	3	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	66	69	67
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m	0	996	1103	1002
Calcium	ppm	ASTM D5185m		1109	1257	1205
Phosphorus	ppm	ASTM D5185m		1092	1122	1067
Zinc	ppm	ASTM D5185m		1259	1417	1323
Sulfur	ppm	ASTM D5185m		3282	3781	3174
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	17.6	16.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	8.6	9.2	9.2
Visc @ 100°C	cSt	ASTM D445	14	14.1	14.7	14.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0086938
Lab Number : 06155086
Unique Number : 10990509
Test Package : MOB 1 (Additional Tests: TBN)

Kemp Quarries - River Valley - Ozark
 9446 N Hwy 309
 Ozark, AR
 US 72949

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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