

Machine Id
PHOENIX MIXER 267
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 40 (--- 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			PCA0109564	LP0000508	LP0000533
Sample Date	Client Info			22 Jan 2024	18 Oct 2023	24 Jul 2023
Machine Age	hrs Client Info			11383	10752	10137
Oil Age	hrs Client Info			500	500	500
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
Water	WC Method	>0.2		NEG	NEG	NEG
Glycol	WC Method			NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>90		13	14	15
Chromium	ppm ASTM D5185m	>20		<1	2	2
Nickel	ppm ASTM D5185m	>2		0	0	0
Titanium	ppm ASTM D5185m	>2		0	0	<1
Silver	ppm ASTM D5185m	>2		0	0	0
Aluminum	ppm ASTM D5185m	>20		2	1	<1
Lead	ppm ASTM D5185m	>40		10	15	11
Copper	ppm ASTM D5185m	>330		1	1	<1
Tin	ppm ASTM D5185m	>15		<1	0	<1
Vanadium	ppm ASTM D5185m			0	0	0
Cadmium	ppm ASTM D5185m			0	0	0

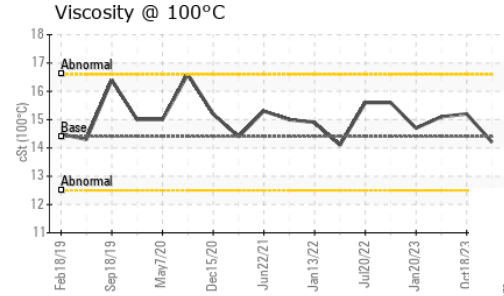
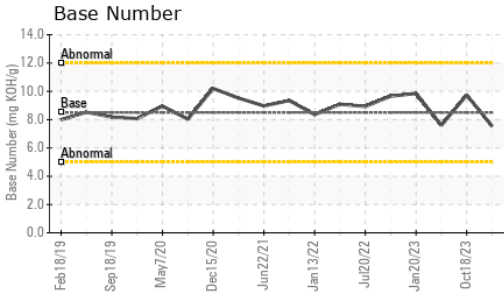
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	250		22	2	12
Barium	ppm ASTM D5185m	10		0	0	0
Molybdenum	ppm ASTM D5185m	100		41	53	73
Manganese	ppm ASTM D5185m			<1	<1	<1
Magnesium	ppm ASTM D5185m	450		108	761	903
Calcium	ppm ASTM D5185m	3000		2078	1360	1444
Phosphorus	ppm ASTM D5185m	1150		950	1038	1188
Zinc	ppm ASTM D5185m	1350		1123	1278	1446
Sulfur	ppm ASTM D5185m	4250		3377	3165	4155

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25		3	3	3
Sodium	ppm ASTM D5185m	>216		1	0	<1
Potassium	ppm ASTM D5185m	>20		3	<1	0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>6		2.8	4.1	2.9
Nitration	Abs/cm *ASTM D7624	>20		10.2	11.2	9.8
Sulfation	Abs/.1mm *ASTM D7415	>30		24.3	26.1	24.3

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25		13.4	15.5	15.6
Base Number (BN)	mg KOH/g ASTM D2896	8.5		7.53	9.74	7.6

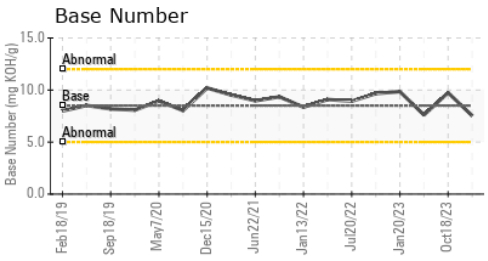
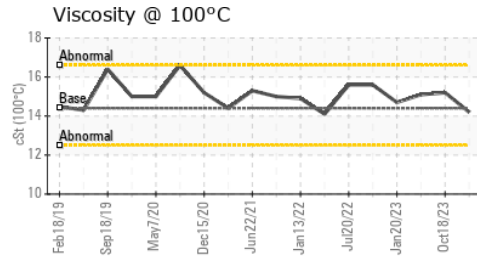
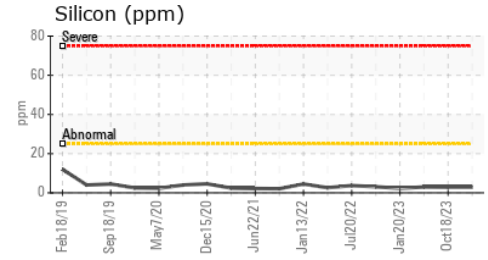
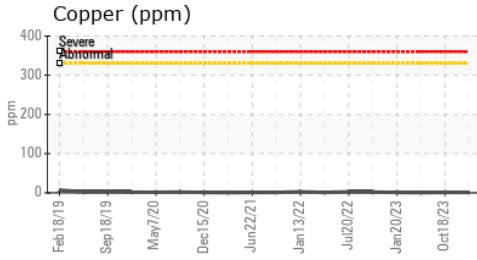
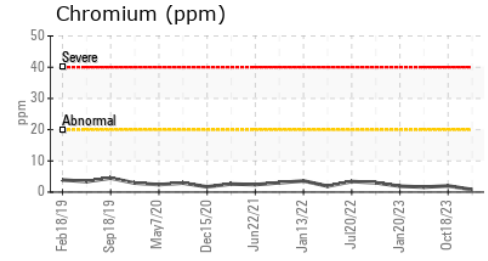
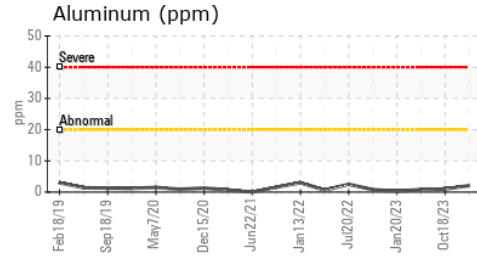
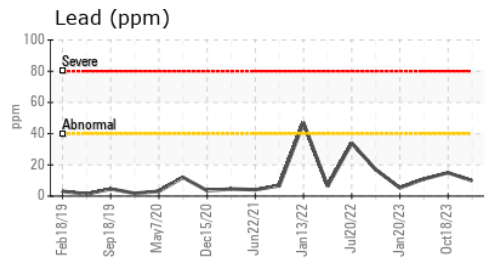
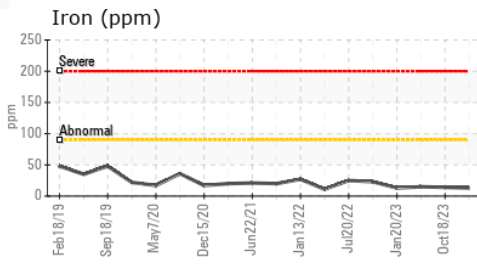
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	14.4	14.2	15.2	15.1

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0109564 **Recieved** : 29 Jan 2024
Lab Number : **06073138** **Diagnosed** : 30 Jan 2024
Unique Number : 10849815 **Diagnostician** : Wes Davis
Test Package : MOB 2

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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)