

Machine Id
PHOENIX MIXER 269
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0109571	PCA0109798	LP0000165
Sample Date		Client Info		05 Mar 2024	02 Nov 2023	15 Aug 2023
Machine Age	hrs	Client Info		13154	12317	11728
Oil Age	hrs	Client Info		500	500	500
Filter Age	hrs	Client Info		500	500	500
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	18	25	40
Chromium	ppm	ASTM D5185m	>4	<1	<1	3
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	3	<1	<1
Lead	ppm	ASTM D5185m	>50	3	5	8
Copper	ppm	ASTM D5185m	>55	1	<1	1
Tin	ppm	ASTM D5185m	>4	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

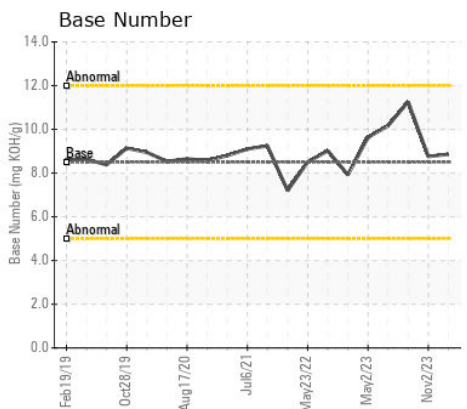
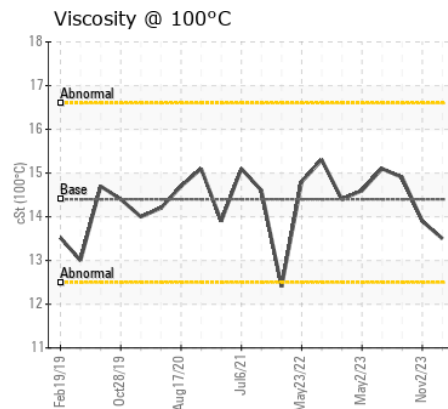
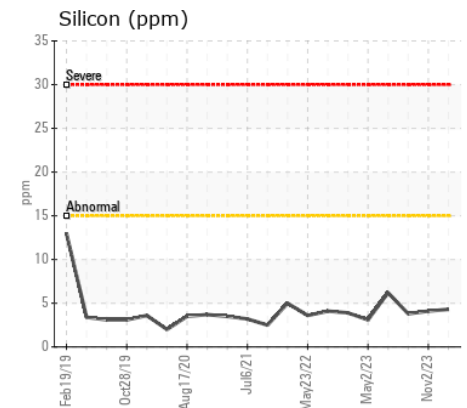
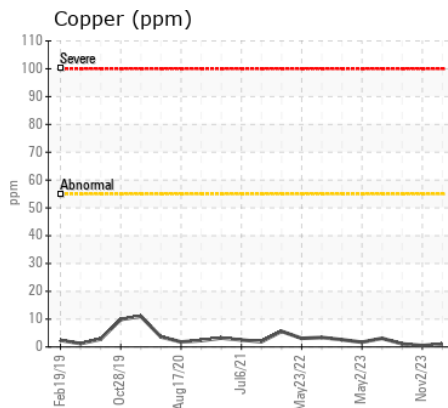
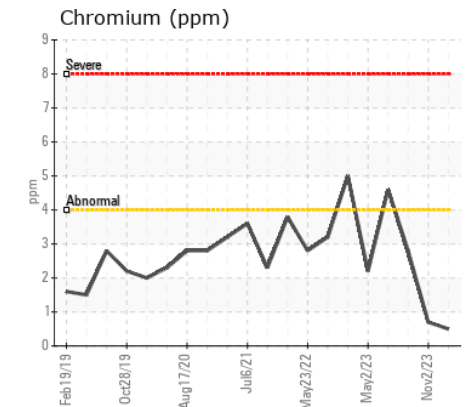
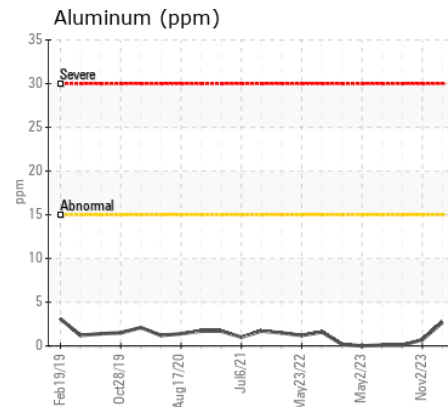
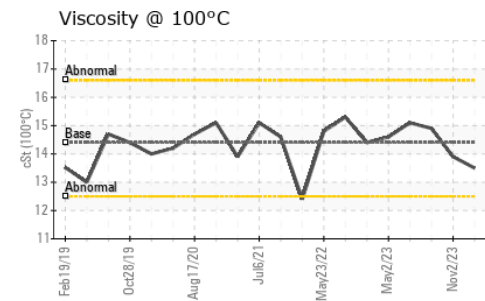
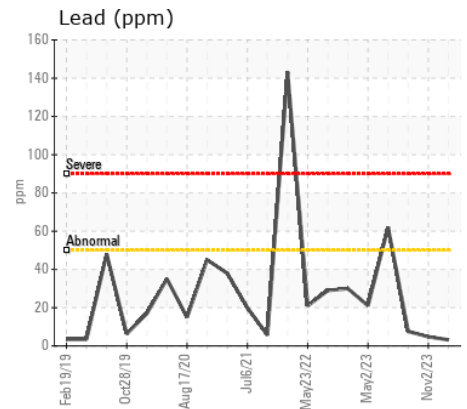
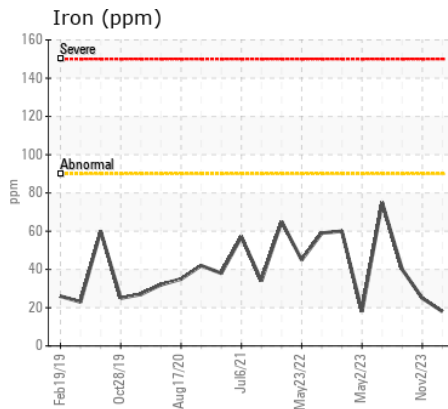
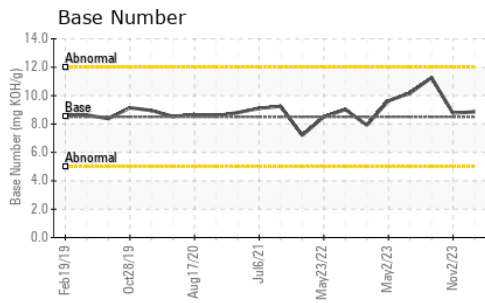
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>15	4	4	4
Potassium	ppm	ASTM D5185m	>20	2	1	3
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
Soot %	%	*ASTM D7844	>6	0.9	1.5	2
Nitration	Abs/cm	*ASTM D7624	>20	8.5	9.6	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	21.2	23.3
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	>216	<1	2	2
Boron	ppm	ASTM D5185m	250	15	25	7
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	19	57	70
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	450	80	425	1112
Calcium	ppm	ASTM D5185m	3000	2340	1842	1353
Phosphorus	ppm	ASTM D5185m	1150	1127	1091	1231
Zinc	ppm	ASTM D5185m	1350	1196	1332	1522
Sulfur	ppm	ASTM D5185m	4250	4071	3643	4217
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.0	14.6	16.2
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.86	8.76	11.26
Visc @ 100°C	cSt	ASTM D445	14.4	13.5	13.9	14.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0109571
Lab Number : 06121745
Unique Number : 10930578
Test Package : MOB 2

Received : 18 Mar 2024
Tested : 19 Mar 2024
Diagnosed : 19 Mar 2024 - Wes Davis

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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)