



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
GATHERING STATIONS/BOA GATHERING STATION
Machine Id
MRC-202 - CAT (S/N JFE01697)
Component
Natural Gas Engine
Fluid
TULCO LUBSOIL GEO XL LOW ASH 40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO60002314	TO60001973	TO60001474
Sample Date		Client Info		07 Apr 2024	01 Feb 2024	02 Oct 2023
Machine Age	hrs	Client Info		23794	22991	20137
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	13	14	9
Chromium	ppm	ASTM D5185m	>4	0	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	<1	1	1
Lead	ppm	ASTM D5185m	>30	9	12	17
Copper	ppm	ASTM D5185m	>35	2	4	2
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

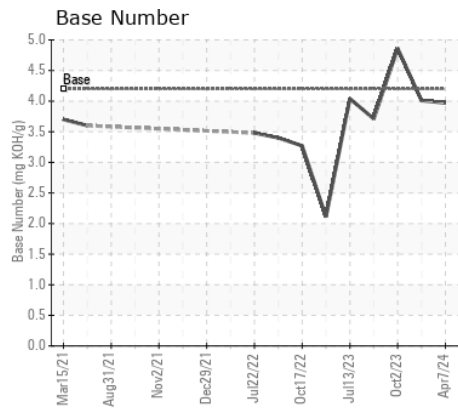
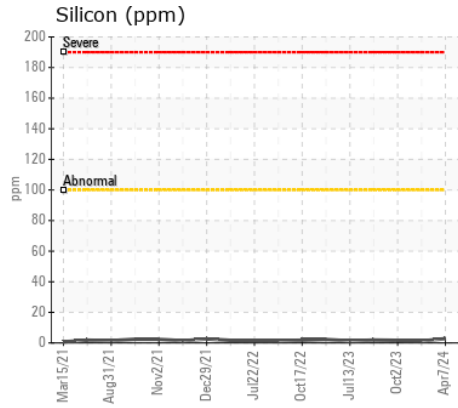
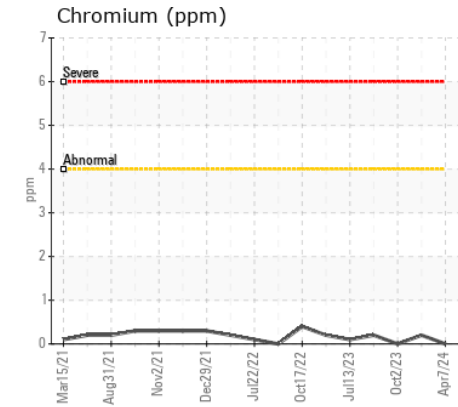
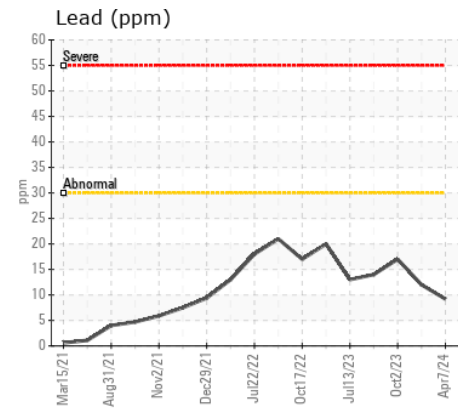
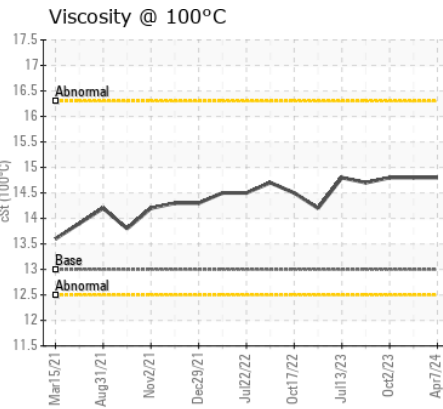
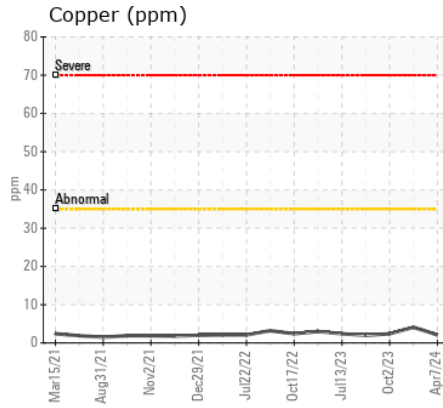
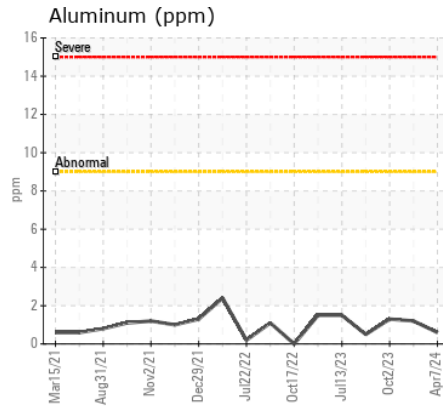
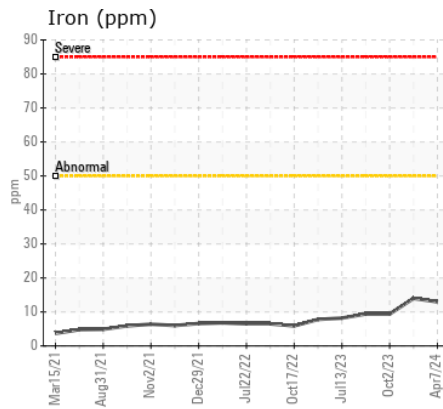
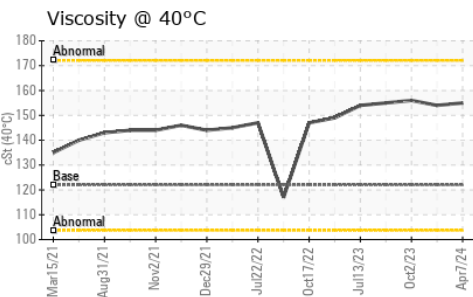
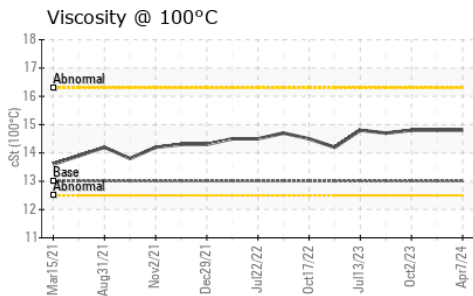
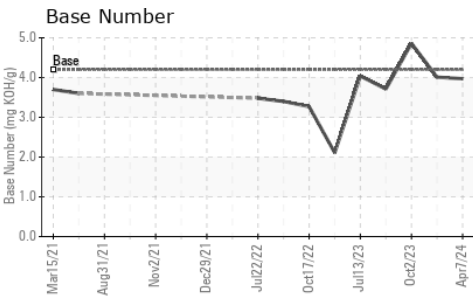
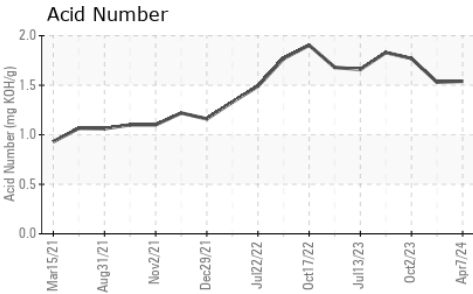
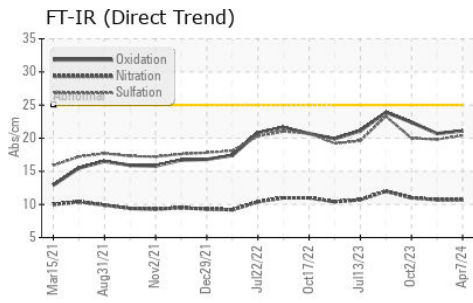
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	3	1	2
Potassium	ppm	ASTM D5185m	>20	4	6	2
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.7	10.7	11.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	19.8	20.0
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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		21	8	3
Boron	ppm	ASTM D5185m	100	76	94	82
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	1	1	1	2
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	10	12	15	4
Calcium	ppm	ASTM D5185m	1150	1541	1498	1646
Phosphorus	ppm	ASTM D5185m	290	298	296	321
Zinc	ppm	ASTM D5185m	272	324	384	435
Sulfur	ppm	ASTM D5185m	1900	2677	2116	1683
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.1	20.7	22.4
Acid Number (AN)	mg KOH/g	ASTM D8045		1.54	1.53	1.77
Base Number (BN)	mg KOH/g	ASTM D2896	4.2	3.97	4.01	4.86
Visc @ 40°C	cSt	ASTM D445	122	155	154	156
Visc @ 100°C	cSt	ASTM D445	13	14.8	14.8	14.8
Viscosity Index (VI)	Scale	ASTM D2270	103	94	94	93



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : TO60002314

Lab Number : 06154636

Unique Number : 10990059

Test Package : MOB 2 (Additional Tests: KV40, VI)

Received : 19 Apr 2024

Tested : 23 Apr 2024

Diagnosed : 23 Apr 2024 - Wes Davis

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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