



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
GATHERING STATIONS/BOA GATHERING STATION
Machine Id
MRC-203 - CAT (S/N JFE01699)
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		TO60002710	TO60002553	TO60002306
Sample Date		Client Info		02 Jul 2024	30 May 2024	01 Apr 2024
Machine Age	hrs	Client Info		28012	27482	26295
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	N/A	Not Changed
Filter Changed		Client Info		Not Changed	N/A	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	7	8	6
Chromium	ppm	ASTM D5185m	>4	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	2	<1
Lead	ppm	ASTM D5185m	>30	4	9	6
Copper	ppm	ASTM D5185m	>35	7	5	2
Tin	ppm	ASTM D5185m	>4	<1	2	<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

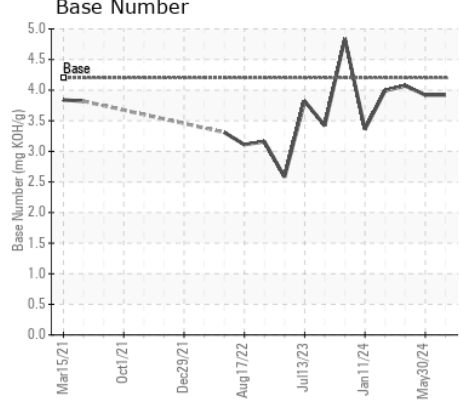
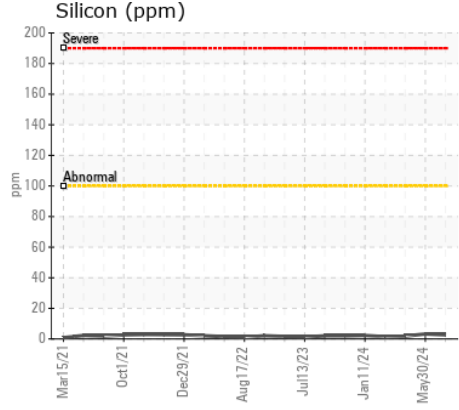
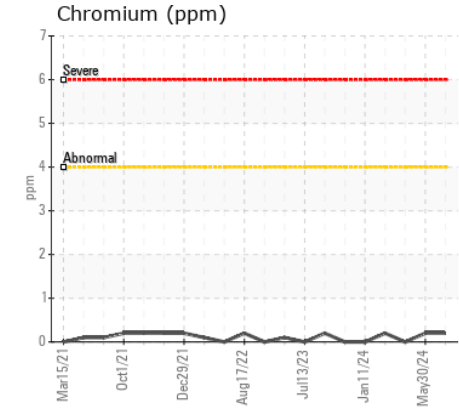
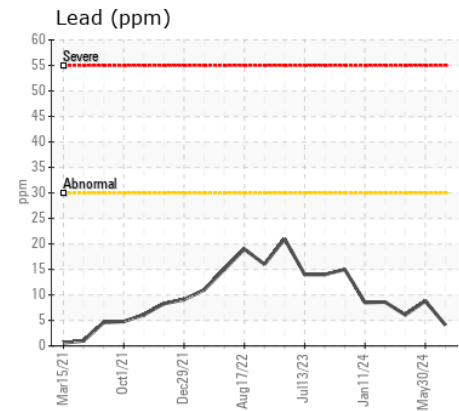
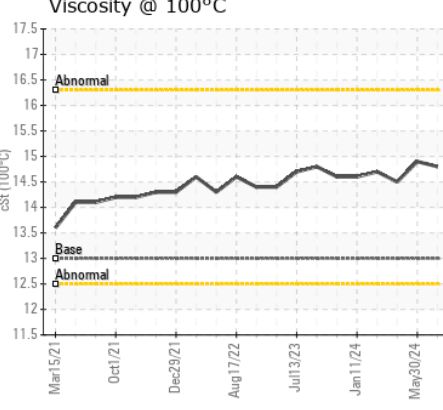
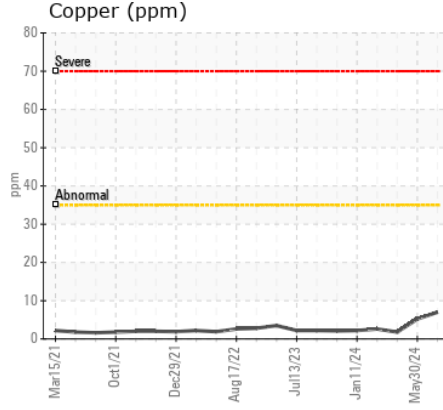
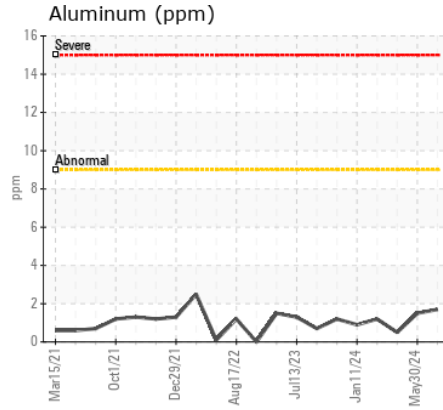
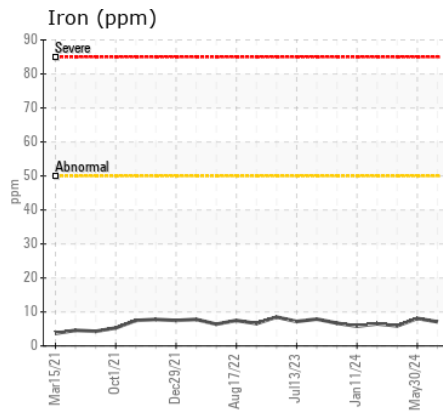
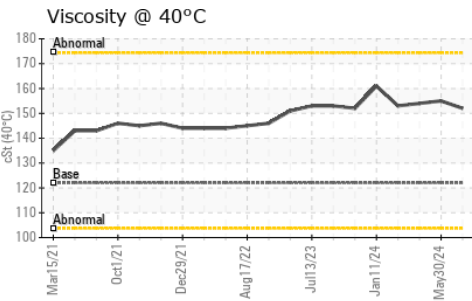
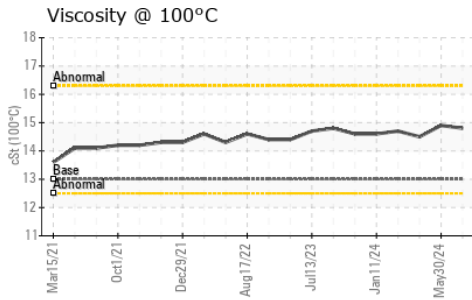
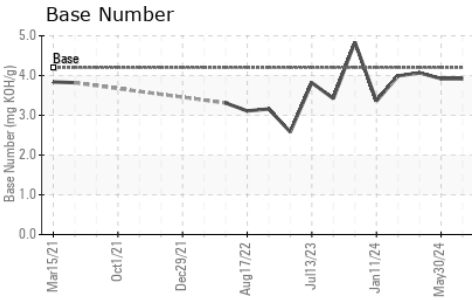
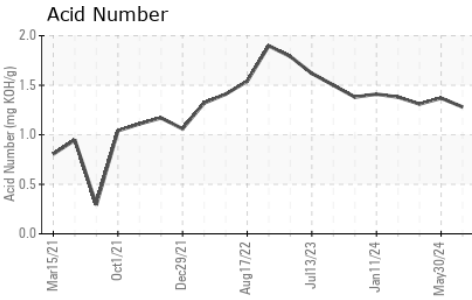
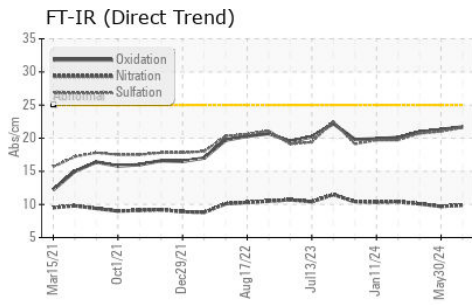
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	3	3	2
Potassium	ppm	ASTM D5185m	>20	5	7	0
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.9	9.7	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	21.0	20.7
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		10	8	6
Boron	ppm	ASTM D5185m	100	42	52	59
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	1	<1	4	<1
Manganese	ppm	ASTM D5185m		1	2	0
Magnesium	ppm	ASTM D5185m	10	13	12	9
Calcium	ppm	ASTM D5185m	1150	1553	1606	1535
Phosphorus	ppm	ASTM D5185m	290	323	333	302
Zinc	ppm	ASTM D5185m	272	393	401	332
Sulfur	ppm	ASTM D5185m	1900	3717	3725	3337
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.7	21.3	20.9
Acid Number (AN)	mg KOH/g	ASTM D8045		1.28	1.37	1.31
Base Number (BN)	mg KOH/g	ASTM D2896	4.2	3.92	3.92	4.07
Visc @ 40°C	cSt	ASTM D445	122	152	155	154
Visc @ 100°C	cSt	ASTM D445	13	14.8	14.9	14.5
Viscosity Index (VI)	Scale	ASTM D2270	103	96	95	91



Certificate L2367

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

Sample No. : TO60002710

Lab Number : 06238550

Unique Number : 11127384

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

Received : 16 Jul 2024

Tested : 17 Jul 2024

Diagnosed : 17 Jul 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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