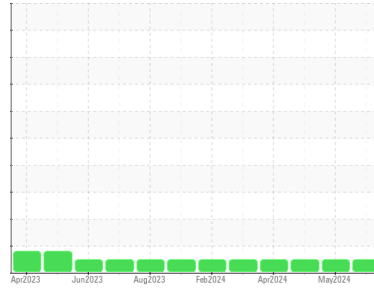


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
GOLDEN BEAR LGL

Machine Id
MRC-284

Component
Natural Gas Engine

Fluid
TULCO LUBSOIL GEO XL LOW ASH 40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			TO60002283	TO60002269	TO60002465
Sample Date	Client Info			02 Jul 2024	31 May 2024	07 May 2024
Machine Age	hrs	Client Info		19094	18365	17794
Oil Age	hrs	Client Info		0	1	1
Oil Changed	Client Info			Not Chngd	Not Chngd	Not Chngd
Sample Status				NORMAL	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	4	6	6
Chromium	ppm	ASTM D5185m	>4	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	2	0
Lead	ppm	ASTM D5185m	>30	<1	4	16
Copper	ppm	ASTM D5185m	>35	1	4	9
Tin	ppm	ASTM D5185m	>4	0	1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

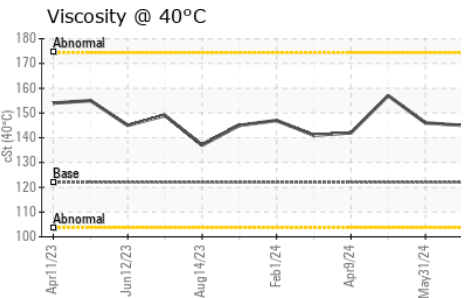
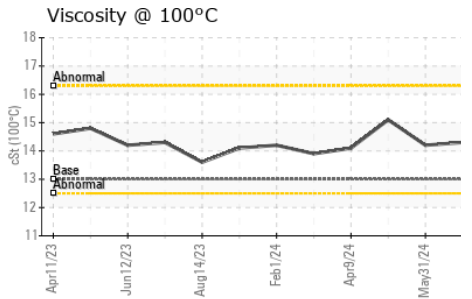
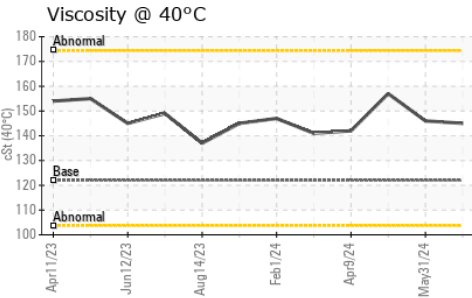
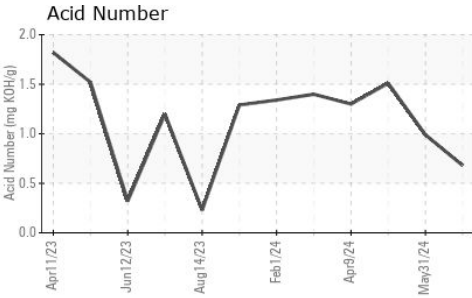
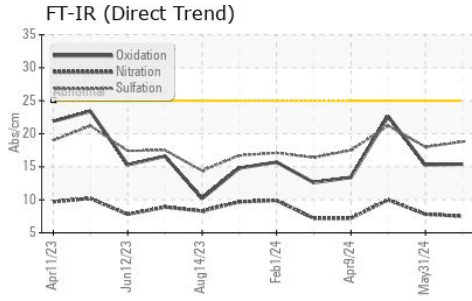
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	100	29	42	61
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	1	<1	4	0
Manganese	ppm	ASTM D5185m		0	2	<1
Magnesium	ppm	ASTM D5185m	10	7	10	10
Calcium	ppm	ASTM D5185m	1150	1351	1526	1555
Phosphorus	ppm	ASTM D5185m	290	287	309	305
Zinc	ppm	ASTM D5185m	272	351	369	385
Sulfur	ppm	ASTM D5185m	1900	2889	3524	3596

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	2	4	1
Sodium	ppm	ASTM D5185m		4	6	7
Potassium	ppm	ASTM D5185m	>20	3	6	<1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.8	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	18.0	21.2

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	15.3	22.6
Acid Number (AN)	mg KOH/g	ASTM D8045		0.68	0.99	1.51
Base Number (BN)	mg KOH/g	ASTM D2896	4.2	3.66	3.63	3.67

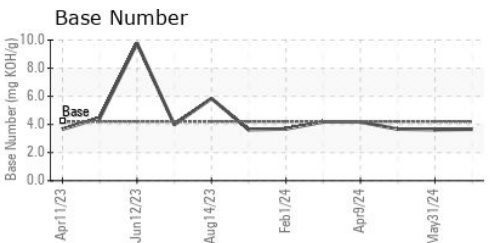
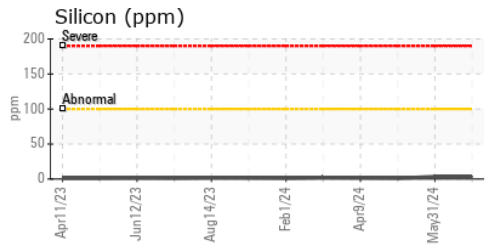
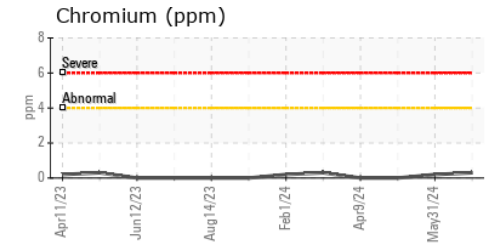
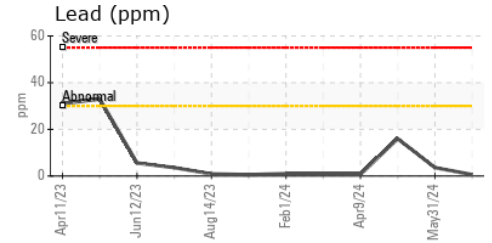
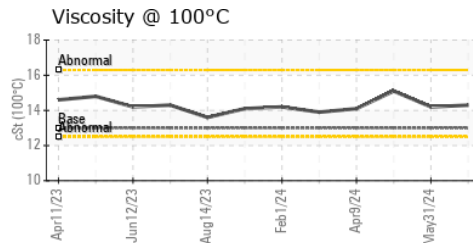
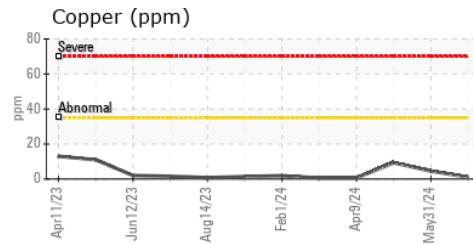
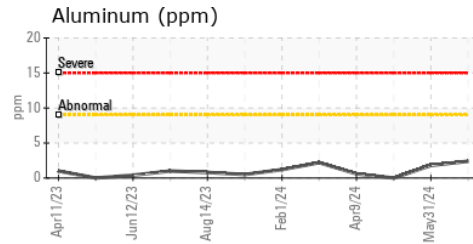
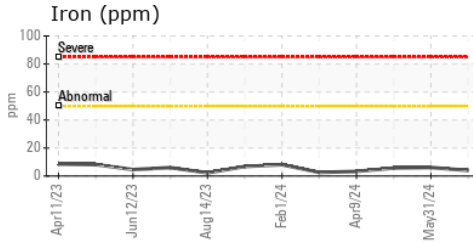
OIL ANALYSIS REPORT



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	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	122	145	146
Visc @ 100°C	cSt	ASTM D445	13	14.3	14.2
Viscosity Index (VI)	Scale	ASTM D2270	103	95	94

GRAPHS



Certificate 12367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60002283
Lab Number : 06238553
Unique Number : 11127387
Test Package : MOB 2 (Additional Tests: KV40, VI)

EOG RESOURCES INC. - MIDLAND
 5509 CHAMPIONS DRIVE
 MIDLAND, TX
 US 79706

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: HERMAN GARZA
 herman_garza@eogresources.com

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (432)686-3600

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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