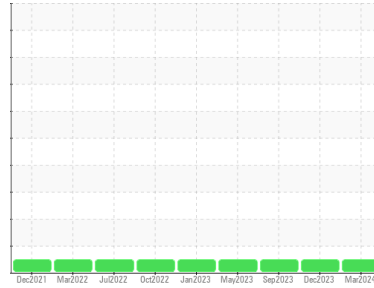# OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id
FSE ELLIOT COMPRESSOR 1 - TECHNMARK P5 (S/N A6EU2083)
Component
Compressor
Fluid
DIAMOND BLUE (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
MPC (Membrane Patch Colorimetry) test indicates acceptable levels of varnish present. There is no indication of any contamination in the oil.

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

SAMPLE INFORMATION

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number		Client Info	**WC0903380**	WC0854941	WC0844708
Sample Date		Client Info	**27 Mar 2024**	19 Dec 2023	12 Sep 2023
Machine Age	hrs	Client Info	**99795**	97950	95668
Oil Age	hrs	Client Info	**15279**	13434	11152
Oil Changed		Client Info	**Changed**	Not Changd	N/A
Sample Status			**NORMAL**	NORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**0**	0	0
Chromium	ppm	ASTM D5185m	>10	**0**	0	0
Nickel	ppm	ASTM D5185m		**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**0**	0	<1
Lead	ppm	ASTM D5185m	>25	**0**	0	0
Copper	ppm	ASTM D5185m	>50	**0**	0	0
Tin	ppm	ASTM D5185m	>15	**<1**	<1	<1
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m		**366**	342	377
Molybdenum	ppm	ASTM D5185m		**0**	<1	0
Manganese	ppm	ASTM D5185m		**0**	0	0
Magnesium	ppm	ASTM D5185m		**0**	0	0
Calcium	ppm	ASTM D5185m		**0**	0	2
Phosphorus	ppm	ASTM D5185m		**24**	19	32
Zinc	ppm	ASTM D5185m		**0**	0	0
Sulfur	ppm	ASTM D5185m		**132**	144	187

CONTAMINANTS

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**<1**	<1	1
Sodium	ppm	ASTM D5185m		**8**	7	6
Potassium	ppm	ASTM D5185m	>20	**0**	0	3

FLUID DEGRADATION

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.24**	0.23	0.21
MPC Varnish Potential	Scale	ASTM D7843	>15	**2**	1	1

OIL ANALYSIS REPORT

Varnish Potential

Acid Number

Viscosity @ 40°C
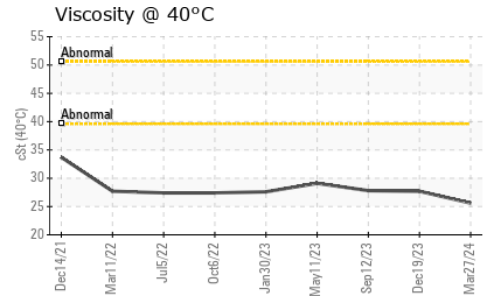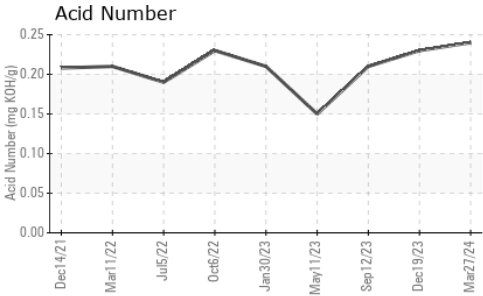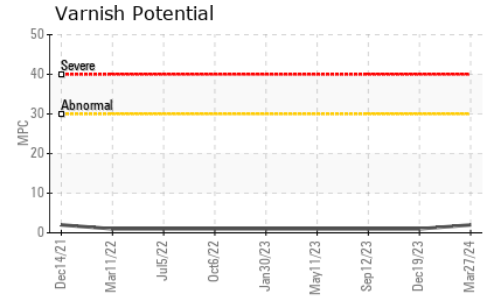
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**25.6**	27.7	27.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
MPC					
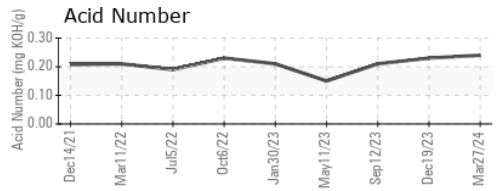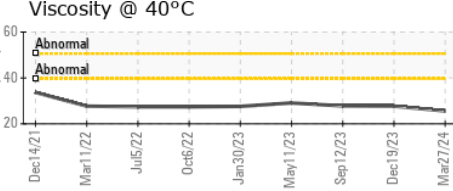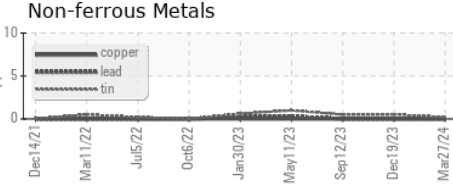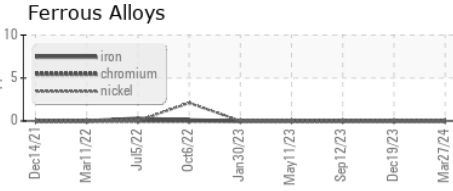
GRAPHS

Ferrous Alloys

Non-ferrous Metals

Viscosity @ 40°C

Acid Number

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)

MPC (Varnish Test)

Sample Color & Clarity

This page left intentionally blank