OIL ANALYSIS REPORT
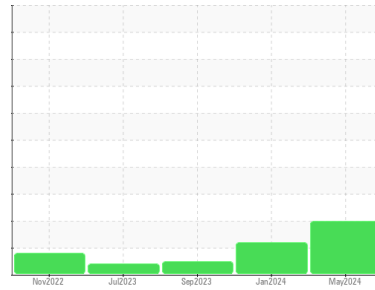
Sample Rating Trend

ISO ⚠️

Machine Id
24-057
Component
Hydraulic System
Fluid
BENZ OIL ULTRA GUARD 552 (300 GAL)

DIAGNOSIS

⚠️ **Recommendation**
We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

⚠️ **Contamination**
There is a high amount of particulates present 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		method	limit/base	current	history1	history2
Sample Number		Client Info		**PH0000241**	PH0000238	PH0000306
Sample Date		Client Info		**29 May 2024**	26 Jan 2024	21 Sep 2023
Machine Age	hrs	Client Info		**0**	14164	0
Oil Age	hrs	Client Info		**16132**	14164	12124
Oil Changed		Client Info		**Filtered**	Filtered	Filtered
Sample Status				**ABNORMAL**	ATTENTION	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.05	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**0**	<1	<1
Chromium	ppm	ASTM D5185m	>20	**0**	<1	0
Nickel	ppm	ASTM D5185m	>20	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**0**	0	0
Lead	ppm	ASTM D5185m	>20	**0**	0	0
Copper	ppm	ASTM D5185m	>20	**<1**	2	<1
Tin	ppm	ASTM D5185m	>20	**0**	<1	<1
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	<1	0
Manganese	ppm	ASTM D5185m		**0**	<1	<1
Magnesium	ppm	ASTM D5185m		**0**	0	2
Calcium	ppm	ASTM D5185m		**0**	0	5
Phosphorus	ppm	ASTM D5185m		**370**	334	328
Zinc	ppm	ASTM D5185m		**10**	0	4
Sulfur	ppm	ASTM D5185m		**1559**	1383	1183

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**2**	2	2
Sodium	ppm	ASTM D5185m		**0**	0	<1
Potassium	ppm	ASTM D5185m	>20	**0**	0	<1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	⚠️ **1865**	🟤 1860	700
Particles >6µm		ASTM D7647	>320	⚠️ **769**	🟤 570	240
Particles >14µm		ASTM D7647	>80	⚠️ **103**	75	31
Particles >21µm		ASTM D7647	>20	⚠️ **30**	21	10
Particles >38µm		ASTM D7647	>4	**2**	1	1
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>17/15/13	⚠️ **18/17/14**	🟤 18/16/13	17/15/12

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.377**	2.44	1.50

Particle Filter (Magn: 200 x)

OIL ANALYSIS REPORT

Particle Count
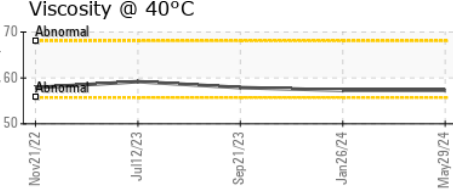

Particle Trend

Acid Number

Viscosity @ 40°C
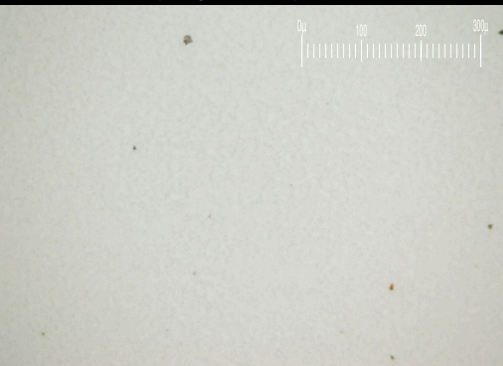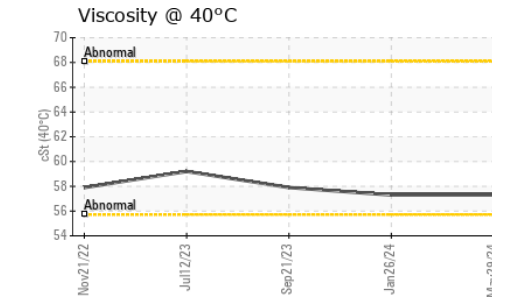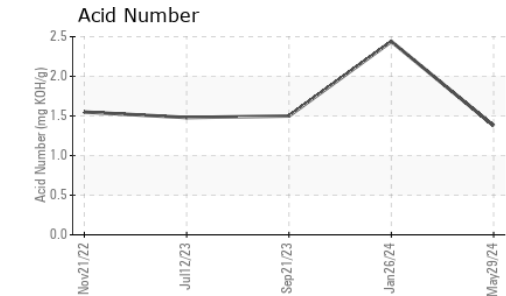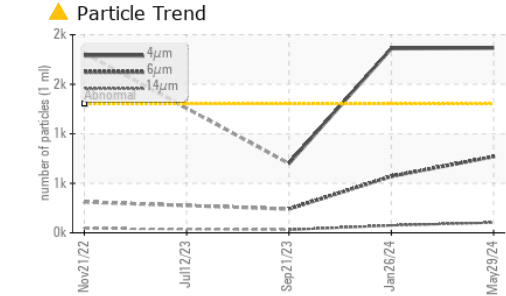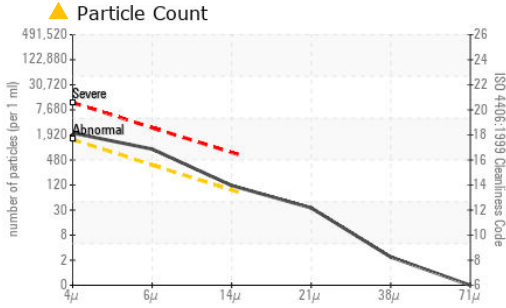
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	**57.3**	57.3	57.9

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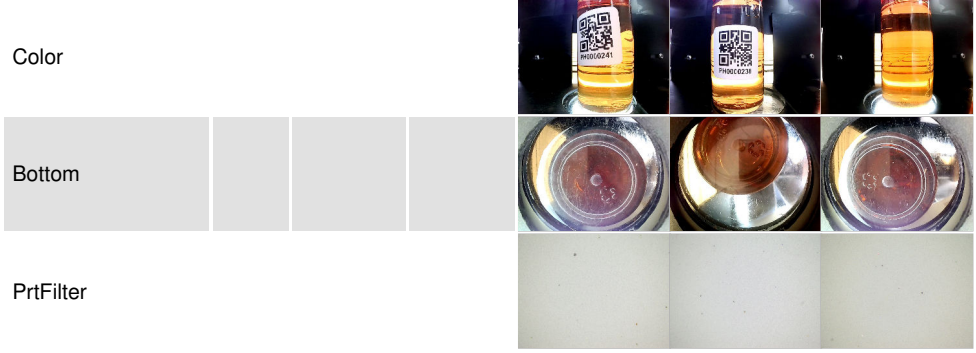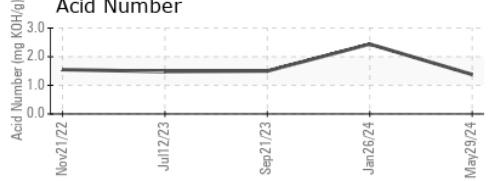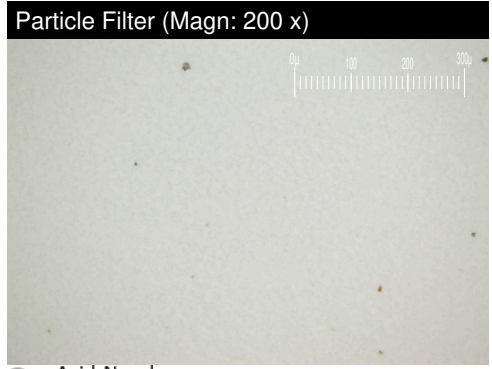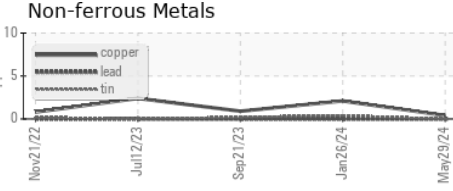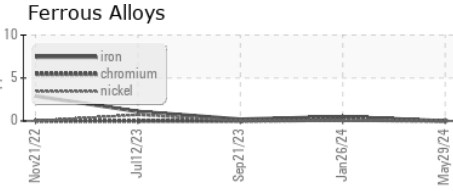
GRAPHS

Ferrous Alloys

Non-ferrous Metals

Viscosity @ 40°C

Particle Filter (Magn: 200 x)

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)

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
Certificate L2367