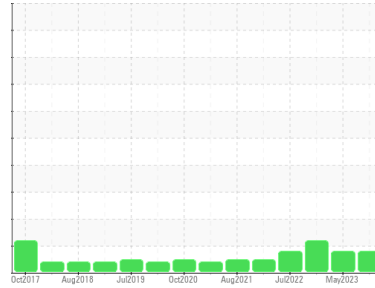# OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Machine Id
PETERBILT 3058H
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

DIAGNOSIS

⚠️ **Recommendation**

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

⚠️ **Contamination**

There is a high amount of silt (particulates < 14 microns in size) 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		**KL0012917**	KL0012169	KL0009713
Sample Date		Client Info		**06 Sep 2023**	03 May 2023	13 Jan 2023
Machine Age	mls	Client Info		**6326**	158840	151064
Oil Age	mls	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**2**	3	2
Chromium	ppm	ASTM D5185m	>10	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>10	**0**	<1	<1
Titanium	ppm	ASTM D5185m		**0**	<1	<1
Silver	ppm	ASTM D5185m		**0**	<1	<1
Aluminum	ppm	ASTM D5185m	>10	**<1**	4	2
Lead	ppm	ASTM D5185m	>10	**0**	<1	<1
Copper	ppm	ASTM D5185m	>75	**2**	1	2
Tin	ppm	ASTM D5185m	>10	**0**	<1	<1
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	**22**	19	22
Barium	ppm	ASTM D5185m	5	**0**	0	2
Molybdenum	ppm	ASTM D5185m	5	**5**	5	6
Manganese	ppm	ASTM D5185m		**0**	<1	<1
Magnesium	ppm	ASTM D5185m	25	**33**	26	26
Calcium	ppm	ASTM D5185m	200	**168**	161	173
Phosphorus	ppm	ASTM D5185m	300	**326**	303	347
Zinc	ppm	ASTM D5185m	370	**381**	386	422
Sulfur	ppm	ASTM D5185m	2500	**1447**	1690	1835

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**3**	2	3
Sodium	ppm	ASTM D5185m		**2**	2	4
Potassium	ppm	ASTM D5185m	>20	**0**	2	2

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		**35562**	42965	74305
Particles >6µm	ASTM D7647	>1300	⚠️ **6358**	⚠️ 3965	⚠️ 13266
Particles >14µm	ASTM D7647	>160	**131**	56	⚠️ 281
Particles >21µm	ASTM D7647	>40	**13**	7	36
Particles >38µm	ASTM D7647	>10	**1**	0	1
Particles >71µm	ASTM D7647	>3	**1**	0	0
Oil Cleanliness	ISO 4406 (c)	>17/14	⚠️ **20/14**	⚠️ 19/13	⚠️ 21/15

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	**0.38**	0.36	0.43
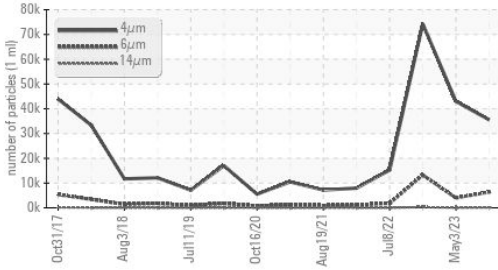
Particle Trend

Particle Trend
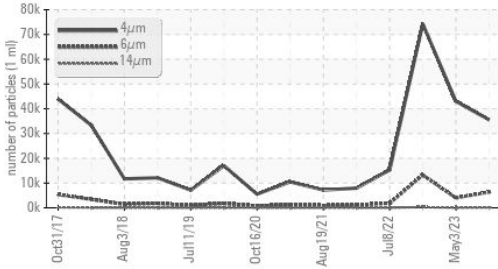
Acid Number
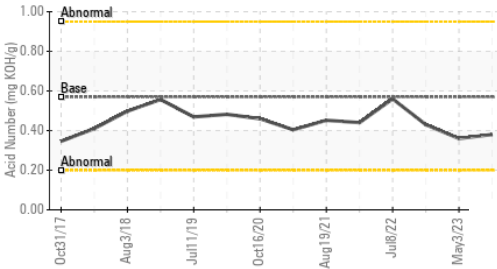
Viscosity @ 40°C
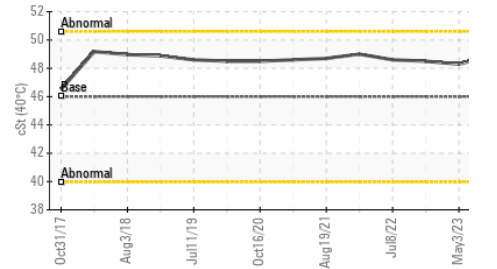
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	**48.9**	48.3	48.5

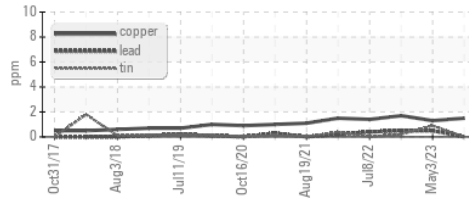| SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
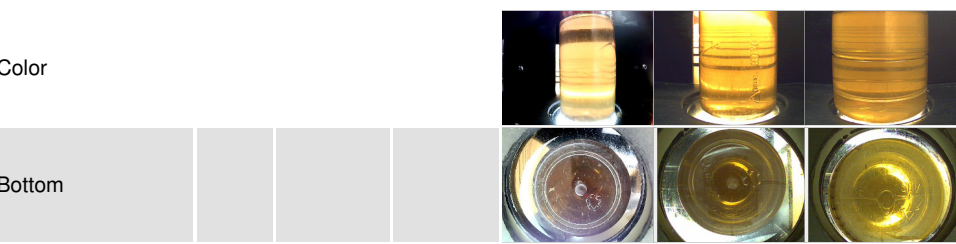
GRAPHS

Ferrous Alloys
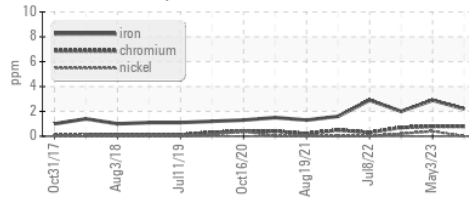
Non-ferrous Metals

Viscosity @ 40°C
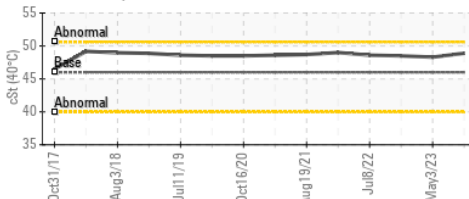
Particle Count
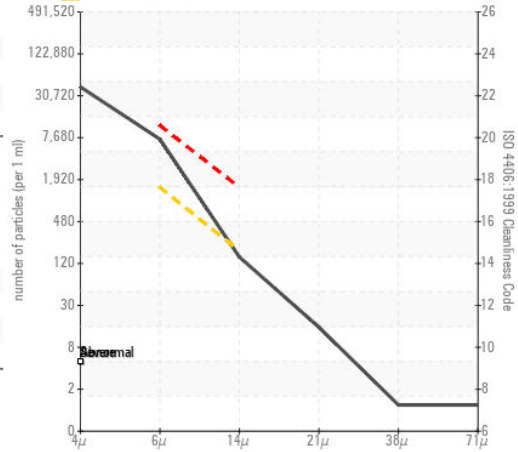
Acid Number
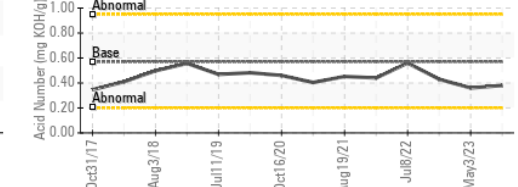
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To discuss this sample report, contact Customer Service at 1-800-237-1369.
* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

ANAB ACCREDITED
ISO/IEC 17025
TESTING LABORATORY
Certificate L2367