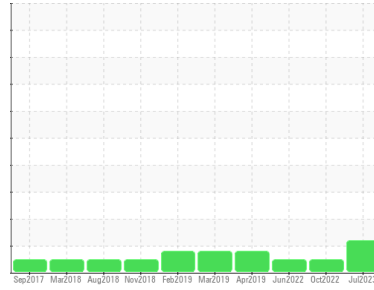




OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Machine Id
PETERBILT SNAP ON 75

Component
Diesel Engine

Fluid
CHEVRON DELO 400 MULTIGRADE 15W40 (13 QTS)

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 light amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		KLM2340146	KL0005397	KL0005399
Sample Date	Client Info		16 Jul 2023	14 Oct 2022	24 Jun 2022
Machine Age	mls	Client Info	251000	230400	221890
Oil Age	mls	Client Info	11000	30000	21890
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			ATTENTION	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	<1.0
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	36	68	52
Chromium	ppm	ASTM D5185m >20	2	4	2
Nickel	ppm	ASTM D5185m >4	<1	0	0
Titanium	ppm	ASTM D5185m	2	0	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >20	9	11	11
Lead	ppm	ASTM D5185m >40	0	2	0
Copper	ppm	ASTM D5185m >330	5	15	9
Tin	ppm	ASTM D5185m >15	0	<1	<1
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 151	199	107	223
Barium	ppm	ASTM D5185m 0.4	0	0	0
Molybdenum	ppm	ASTM D5185m 250	101	67	74
Manganese	ppm	ASTM D5185m	<1	2	<1
Magnesium	ppm	ASTM D5185m 0	526	673	705
Calcium	ppm	ASTM D5185m 2046	1720	1571	1695
Phosphorus	ppm	ASTM D5185m 1043	753	660	703
Zinc	ppm	ASTM D5185m 943	870	809	820
Sulfur	ppm	ASTM D5185m 5012	3748	3041	3738

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	6	8	6
Sodium	ppm	ASTM D5185m	<1	2	3
Potassium	ppm	ASTM D5185m >20	7	8	6

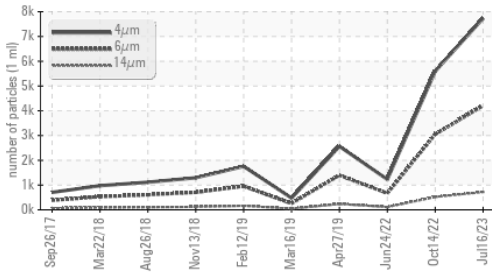
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.5	1.3	0.9
Nitration	Abs/cm	*ASTM D7624 >20	9.3	12.6	11.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.7	27.8	25.2

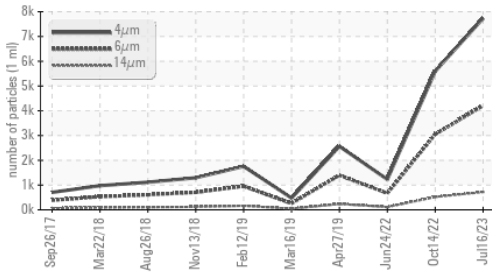


OIL ANALYSIS REPORT

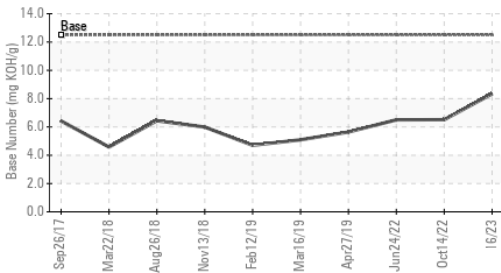
▲ Particle Trend



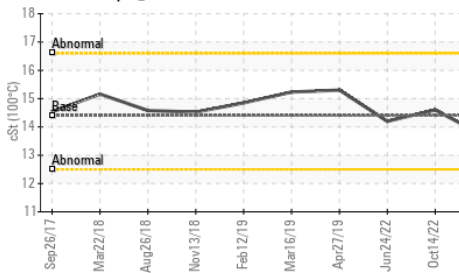
▲ Particle Trend



Base Number



Viscosity @ 100°C



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		7734	5596	1227
Particles >6µm	ASTM D7647	>5000	4213	3049	668
Particles >14µm	ASTM D7647	>640	▲ 717	519	114
Particles >21µm	ASTM D7647	>160	▲ 242	175	38
Particles >38µm	ASTM D7647	>40	37	27	6
Particles >71µm	ASTM D7647	>10	4	3	1
Oil Cleanliness	ISO 4406 (c)	>19/16	▲ 19/17	19/16	17/14

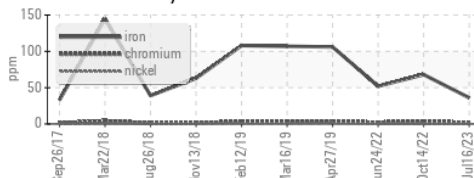
FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm *ASTM D7414	>25	19.5	25.2	21.5
Base Number (BN)	mg KOH/g ASTM D2896	12.5	8.34	6.51	6.50

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	>0.2	NEG	NEG	NEG
Free Water	scalar *Visual		NEG	NEG	NEG

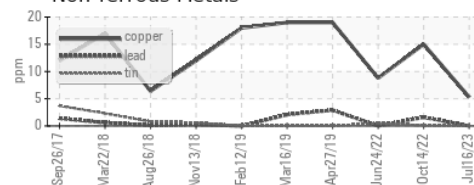
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D445	14.4	13.7	14.6	14.2

GRAPHS

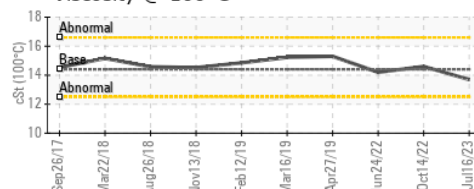
Ferrous Alloys



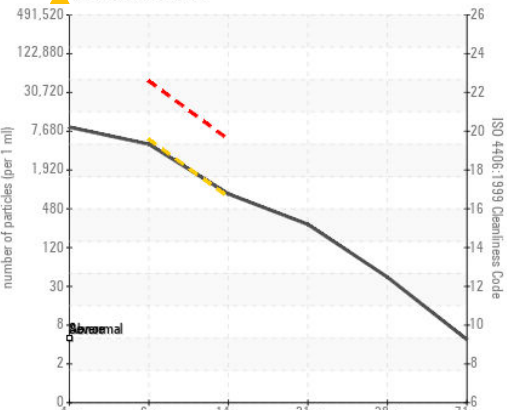
Non-ferrous Metals



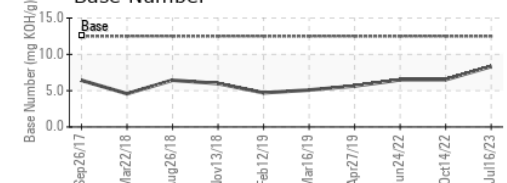
Viscosity @ 100°C



▲ Particle Count



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : KLM2340146 Received : 17 Jul 2023
 Lab Number : 05900778 Diagnosed : 19 Jul 2023
 Unique Number : 10562134 Diagnostician : Wes Davis
 Test Package : MOB 2 (Additional Tests: PrtCount)

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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