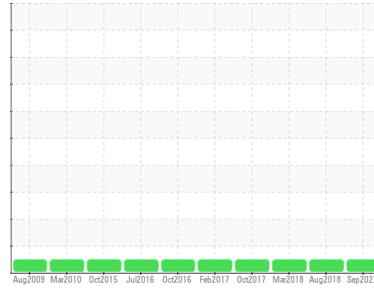




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
PETERBILT 7707

Component
Diesel Engine

Fluid
CHEVRON DELO 400 MULTIGRADE 15W40 (7 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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 condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	KL0013229	KLMFA23173	KLMFA23059	
Sample Date	Client Info	06 Sep 2023	03 Aug 2018	02 Mar 2018	
Machine Age	mls	Client Info	156601	128437	12543
Oil Age	mls	Client Info	0	34258	31064
Oil Changed	Client Info	N/A	Not Changd	Not Changd	
Sample Status		NORMAL	NORMAL	NORMAL	

CONTAMINATION

method	limit/base	current	history1	history2	
Fuel	WC Method	>3.0	<1.0	<1.0	<1.0
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>90	17	74	63
Chromium	ppm	ASTM D5185m	>4	<1	2	1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	1	4	5
Lead	ppm	ASTM D5185m	>50	6	26	20
Copper	ppm	ASTM D5185m	>55	9	6	6
Tin	ppm	ASTM D5185m	>4	2	0	0
Antimony	ppm	ASTM D5185m		---	<1	3
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	151	6	64	81
Barium	ppm	ASTM D5185m	0.4	0	<1	0
Molybdenum	ppm	ASTM D5185m	250	79	71	75
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	0	1137	368	352
Calcium	ppm	ASTM D5185m	2046	1277	1641	1639
Phosphorus	ppm	ASTM D5185m	1043	1237	928	1001
Zinc	ppm	ASTM D5185m	943	1518	1130	1174
Sulfur	ppm	ASTM D5185m	5012	3637	2517	2626

CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>15	5	7	8
Sodium	ppm	ASTM D5185m		7	12	11
Potassium	ppm	ASTM D5185m	>20	4	0	4

INFRA-RED

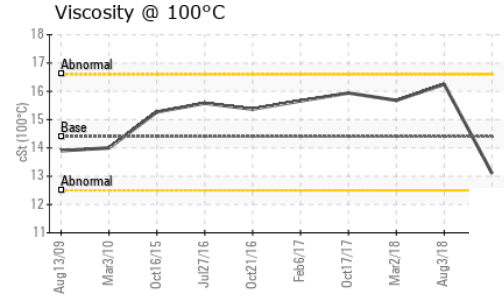
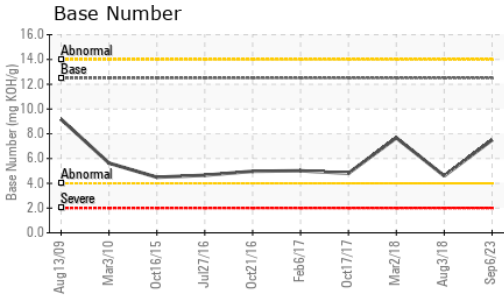
method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>6	0.2	1.7	0.7
Nitration	Abs/cm	*ASTM D7624	>20	9.2	12.8	8.
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	34.2	24.

FLUID DEGRADATION

method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	35.1	20.
Base Number (BN)	mg KOH/g	ASTM D2896	12.5	7.5	4.6	7.67



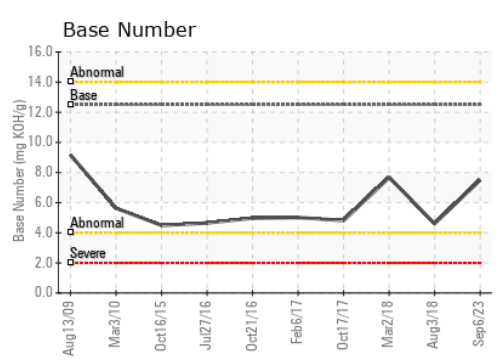
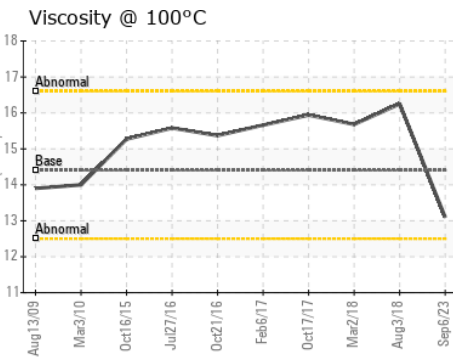
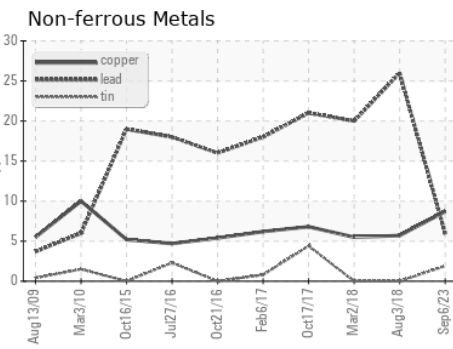
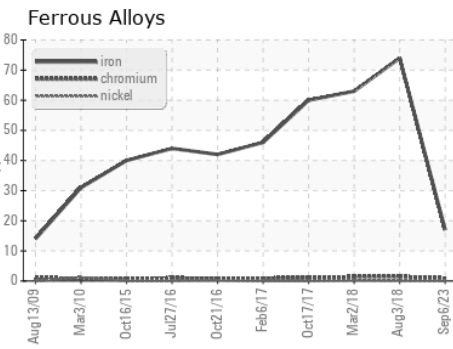
OIL ANALYSIS REPORT



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	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	14.4	13.1	16.25	15.68

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013229 **Received** : 02 Oct 2023
Lab Number : 05966133 **Diagnosed** : 03 Oct 2023
Unique Number : 10672684 **Diagnostician** : Don Baldrige
Test Package : FLEET

VILLAGE OF RUIDOSO
 313 CREE MEADOWS DR
 RUIDOSO, NM
 US 88355
 Contact: JERRY PARSONS
 jerryparsons@ruidoso-nm.gov
 T: (575)257-1702
 F: x:

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)