FLEET WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
2007 PETERBILT 9628E
Component
Diesel Engine
Fluid
PURUS SYNTHETIC BLEND 15W40 (32 QTS)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

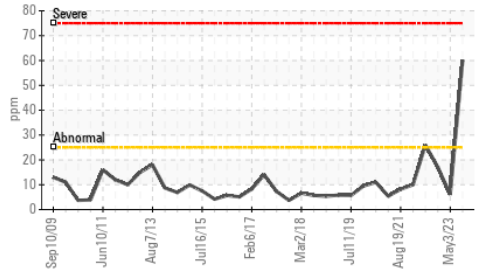
Elemental level of silicon (Si) above normal indicating ingress of seal material. Light fuel dilution occurring.

FLUID CONDITION

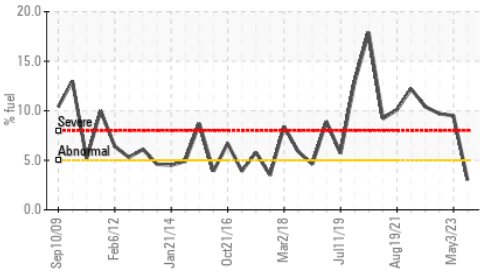
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013281	KL0011853	KL0008414
Sample Date		Client Info		14 Feb 2024	03 May 2023	13 Jan 2023
Machine Age	mls	Client Info		441171	427954	419989
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	SEVERE
Iron	ppm	ASTM D5185m	>100	12	8	20
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	4	4	5
Lead	ppm	ASTM D5185m	>40	3	2	2
Copper	ppm	ASTM D5185m	>330	6	2	4
Tin	ppm	ASTM D5185m	>15	2	2	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	▲ 60	6	17
Potassium	ppm	ASTM D5185m	>20	3	2	3
Fuel	%	ASTM D3524	>5	▲ 3.0	▲ 9.5	▲ 9.7
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.0	6.9	7.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	19.7	21.0
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
Sodium	ppm	ASTM D5185m		2	2	0
Boron	ppm	ASTM D5185m		69	3	5
Barium	ppm	ASTM D5185m		9	0	2
Molybdenum	ppm	ASTM D5185m		96	55	57
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		101	895	813
Calcium	ppm	ASTM D5185m		2164	965	1027
Phosphorus	ppm	ASTM D5185m		1081	938	943
Zinc	ppm	ASTM D5185m		1253	1103	1051
Sulfur	ppm	ASTM D5185m		4040	3200	2627
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8	15.8	17.1
Base Number (BN)	mg KOH/g	ASTM D2896	10	7.2	7.79	6.4
Visc @ 100°C	cSt	ASTM D445	15.7	12.9	▲ 9.9	▲ 9.7

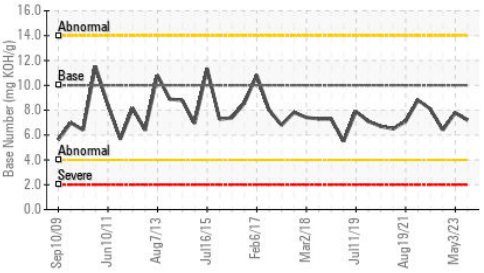
Silicon (ppm)



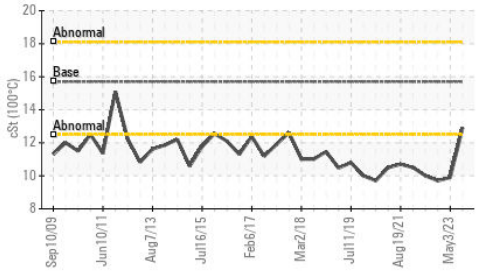
Fuel Dilution



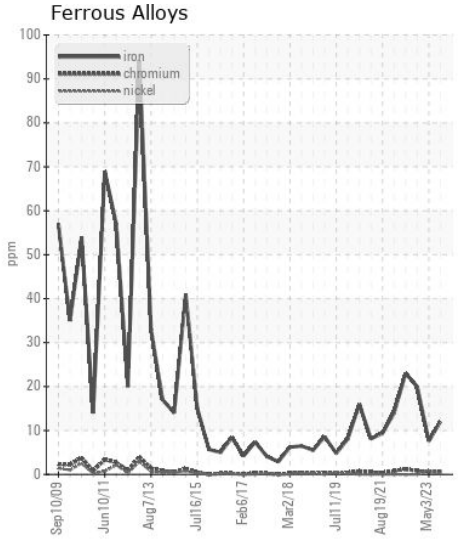
Base Number



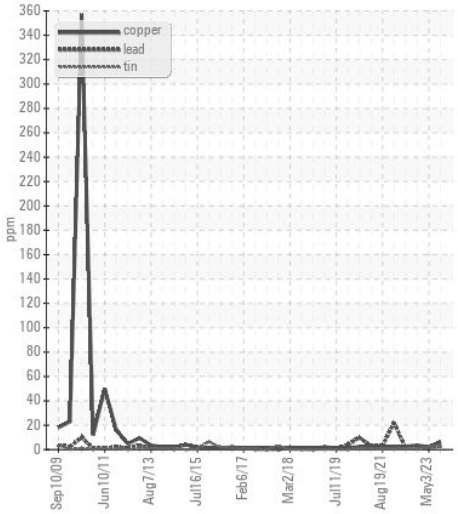
Viscosity @ 100°C



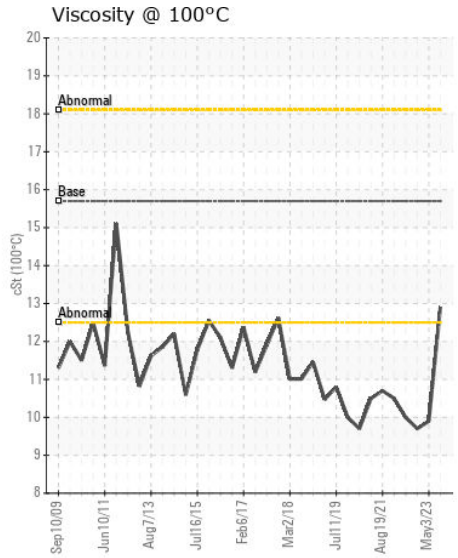
Ferrous Alloys



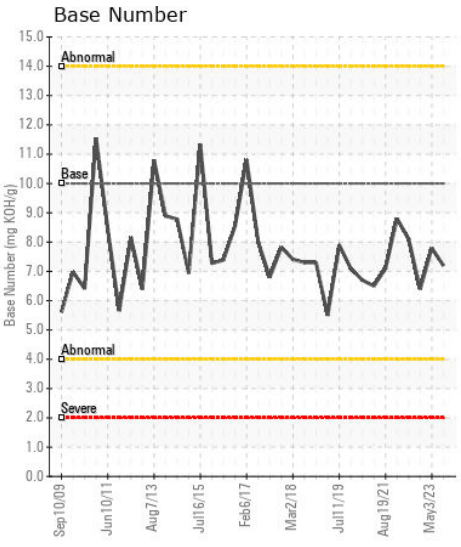
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013281 **Received** : 29 Feb 2024
Lab Number : 06104754 **Tested** : 04 Mar 2024
Unique Number : 10902984 **Diagnosed** : 04 Mar 2024 - Sean Felton
Test Package : FLEET (Additional Tests: PercentFuel)

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)

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