TRAAP
Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 115
Component
Diesel Engine
Fluid
TRC MOLY XL PROSPEC III 15W40 (44 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

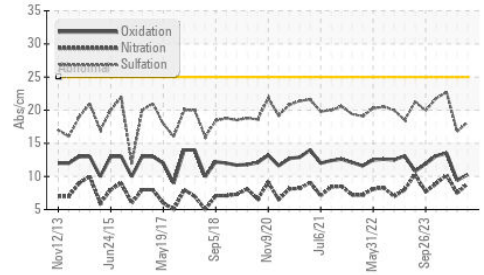
There is no indication of any contamination in the oil.

FLUID CONDITION

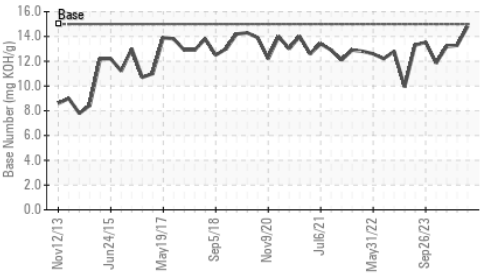
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06191249	TR06151314	TR06108208
Sample Date		Client Info		20 May 2024	12 Apr 2024	28 Feb 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		314	74	883
Filter Age	hrs	Client Info		314	74	883
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>110	27	13	88
Chromium	ppm	ASTM D5185m	>4	<1	<1	4
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>25	3	4	5
Lead	ppm	ASTM D5185m	>45	1	0	4
Copper	ppm	ASTM D5185m	>85	2	2	6
Tin	ppm	ASTM D5185m	>4	1	0	3
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>30	13	8	▲ 30
Potassium	ppm	ASTM D5185m	>20	2	3	4
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.2	1.3
Nitration	Abs/cm	*ASTM D7624	>20	8.9	7.5	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	16.8	22.7
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	5	10
Boron	ppm	ASTM D5185m		8	12	125
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		128	132	152
Manganese	ppm	ASTM D5185m		<1	0	1
Magnesium	ppm	ASTM D5185m		40	40	345
Calcium	ppm	ASTM D5185m	4500	3772	4130	3736
Phosphorus	ppm	ASTM D5185m		929	977	900
Zinc	ppm	ASTM D5185m	1400	1008	1069	1014
Sulfur	ppm	ASTM D5185m		4673	4487	4164
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.3	9.4	13.5
Base Number (BN)	mg KOH/g	ASTM D2896	15	14.82	13.28	13.19
Visc @ 100°C	cSt	ASTM D445	15.5	13.2	14.4	13.4

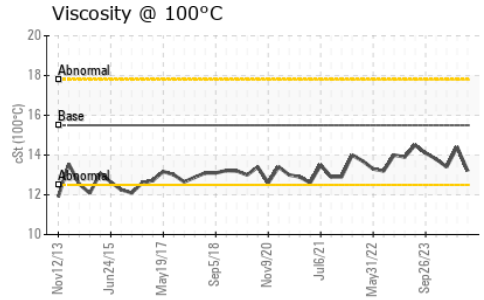
FT-IR (Direct Trend)



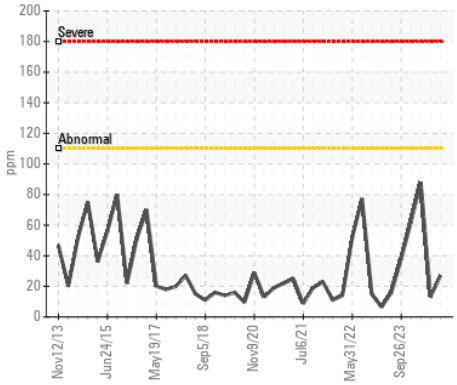
Base Number



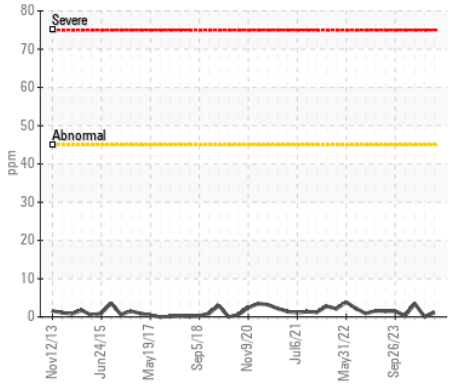
Viscosity @ 100°C



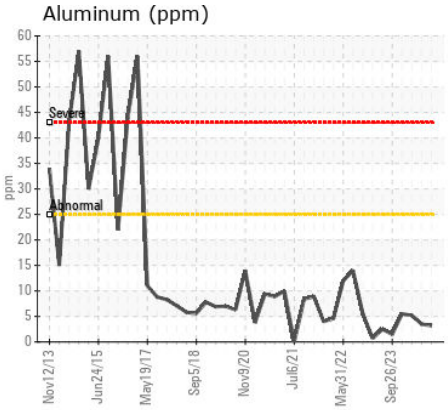
Iron (ppm)



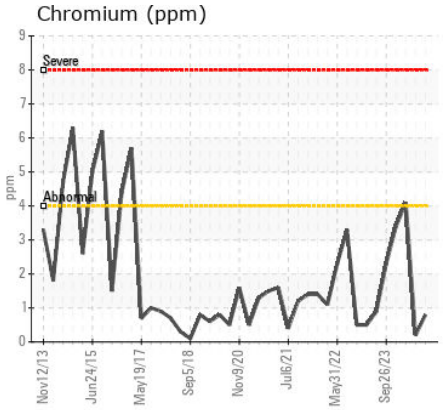
Lead (ppm)



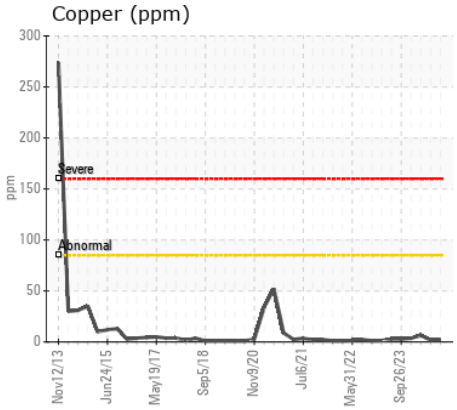
Aluminum (ppm)



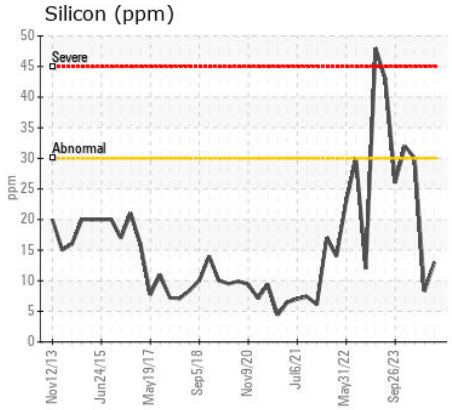
Chromium (ppm)



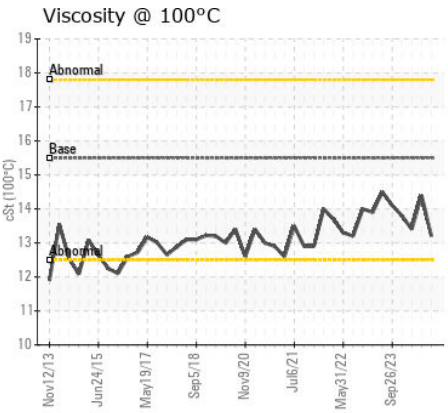
Copper (ppm)



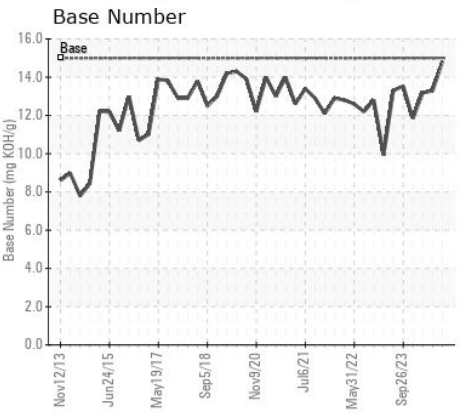
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: TR06191249	**Received**	: 24 May 2024
Lab Number	: 06191249	**Tested**	: 31 May 2024
Unique Number	: 11048001	**Diagnosed**	: 31 May 2024 - Sean Felton
Test Package	: MOB 2		

To discuss this sample report, contact Customer Service at 1-800-827-0711.
** - 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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