MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 812
Component
Diesel Engine
Fluid
CHEVRON DELO 400 XLE 10W30 (38 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

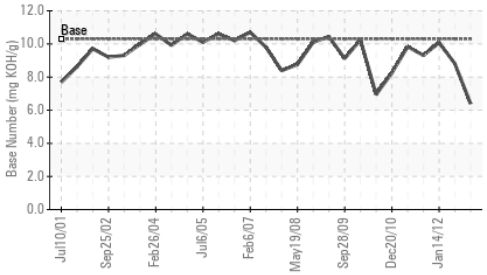
There is no indication of any contamination in the oil.

FLUID CONDITION

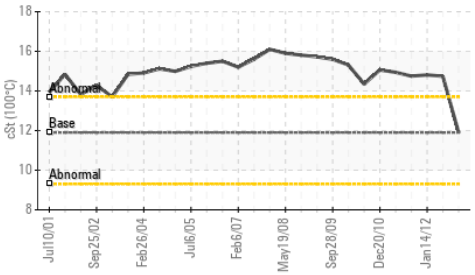
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0779013	WCM2205656	WCM2205645
Sample Date		Client Info		30 Jan 2024	16 Apr 2012	14 Jan 2012
Machine Age	mls	Client Info		17217	24682	18804
Oil Age	mls	Client Info		0	5878	6598
Filter Age	mls	Client Info		0	5878	6598
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	25	9	9
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	9	3	1
Lead	ppm	ASTM D5185m	>40	0	2	3
Copper	ppm	ASTM D5185m	>330	22	1	1
Tin	ppm	ASTM D5185m	>15	1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	5	5	4
Potassium	ppm	ASTM D5185m	>20	15	18	28
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	0.6	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	10.7	5.	6.
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	15.	18.
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		<1	8	8
Boron	ppm	ASTM D5185m		28	33	28
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		4	9	5
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		713	14	22
Calcium	ppm	ASTM D5185m	2900	1360	2391	2399
Phosphorus	ppm	ASTM D5185m	1100	737	1118	1071
Zinc	ppm	ASTM D5185m	1200	827	1208	1183
Sulfur	ppm	ASTM D5185m	4000	2992	3271	3454
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	11.	15.
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	6.39	8.81	10.07
Visc @ 100°C	cSt	ASTM D445	11.9	11.9	14.74	14.81

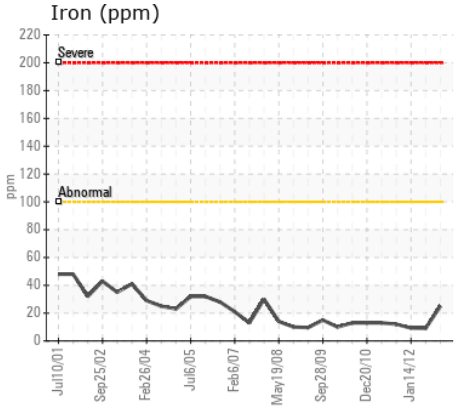
Base Number



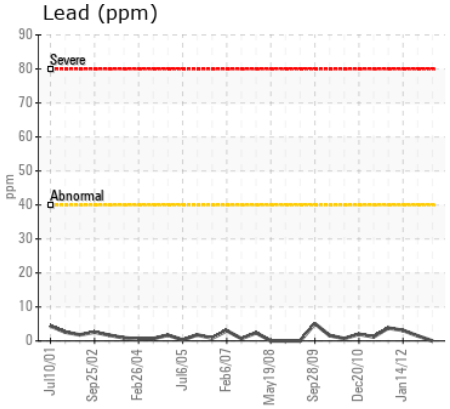
Viscosity @ 100°C



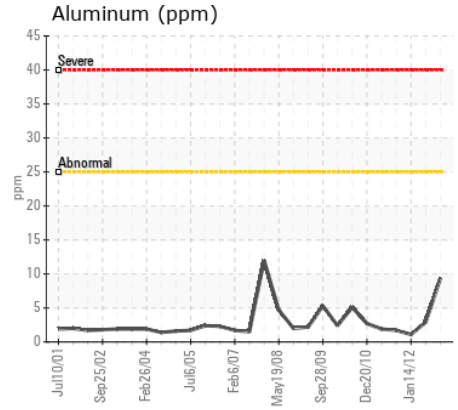
Iron (ppm)



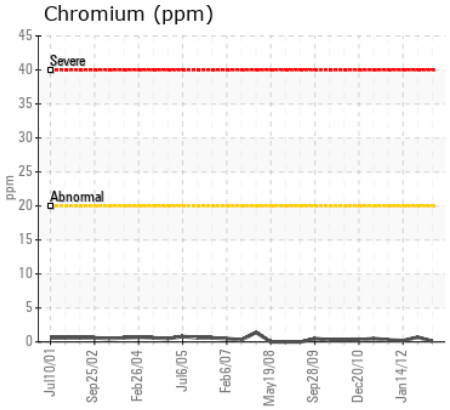
Lead (ppm)



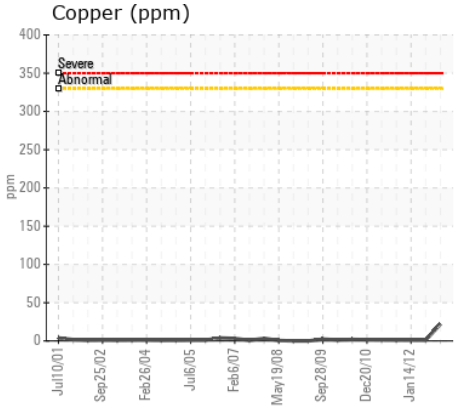
Aluminum (ppm)



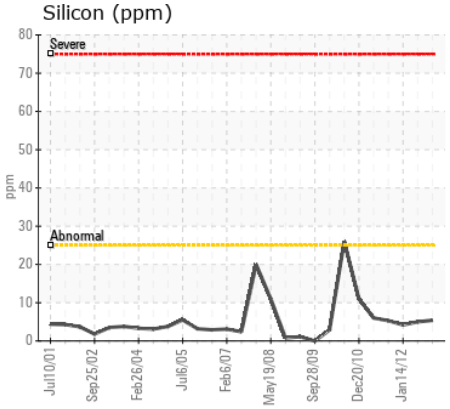
Chromium (ppm)



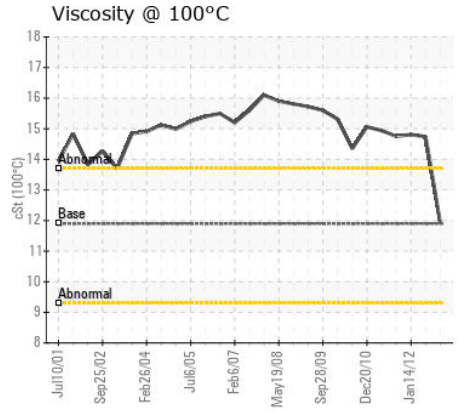
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



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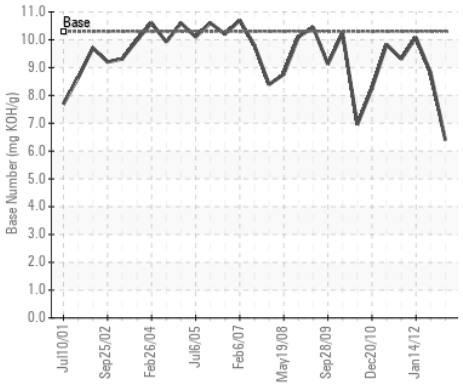

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0779013
Lab Number : 06097223
Unique Number : 10890076
Test Package : MOB 2

Received : 22 Feb 2024
Tested : 23 Feb 2024
Diagnosed : 23 Feb 2024 - Wes Davis

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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