OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 8464853
Component
Diesel Engine
Fluid
MOBIL DELVAC 1 5W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

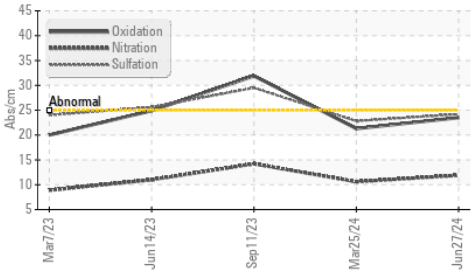
There is no indication of any contamination in the oil.

FLUID CONDITION

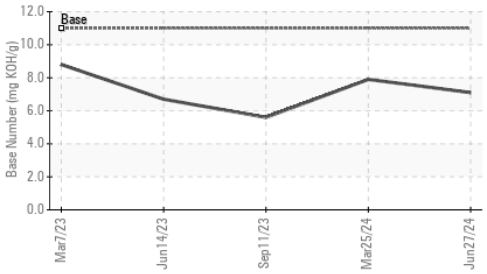
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0021910	RPL0019403	RPL0015026
Sample Date		Client Info		27 Jun 2024	25 Mar 2024	11 Sep 2023
Machine Age	mls	Client Info		35573	30905	19980
Oil Age	mls	Client Info		15593	10892	19980
Filter Age	mls	Client Info		15593	10892	19980
Oil Changed		Client Info		Changed	Filtered	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>110	31	20	78
Chromium	ppm	ASTM D5185m	>4	<1	<1	2
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	4	2	9
Lead	ppm	ASTM D5185m	>45	0	0	<1
Copper	ppm	ASTM D5185m	>85	2	2	15
Tin	ppm	ASTM D5185m	>4	<1	<1	1
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	5	4	19
Potassium	ppm	ASTM D5185m	>20	2	<1	8
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	0.5	0.8
Nitration	Abs/cm	*ASTM D7624	>20	11.9	10.6	14.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.2	22.8	29.5
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	<1	8
Boron	ppm	ASTM D5185m	291	9	9	96
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	8.0	66	65	108
Manganese	ppm	ASTM D5185m		<1	1	10
Magnesium	ppm	ASTM D5185m	624	991	947	852
Calcium	ppm	ASTM D5185m	2158	1153	1068	1603
Phosphorus	ppm	ASTM D5185m	1132	1092	1036	827
Zinc	ppm	ASTM D5185m	1300	1361	1224	1065
Sulfur	ppm	ASTM D5185m	3616	3840	3420	3253
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.5	21.3	31.9
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	7.1	7.9	5.6
Visc @ 100°C	cSt	ASTM D445	15.0	12.7	12.7	13.3

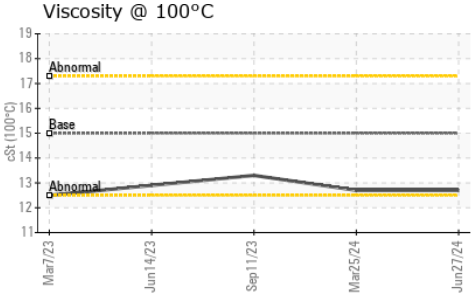
FT-IR (Direct Trend)



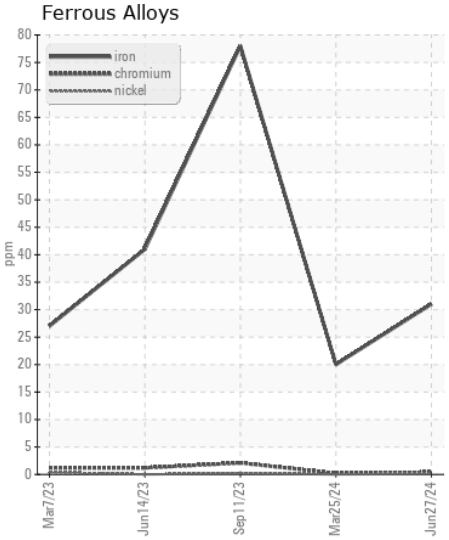
Base Number



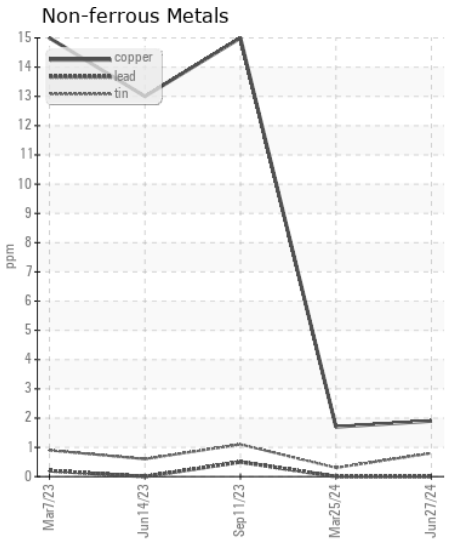
Viscosity @ 100°C



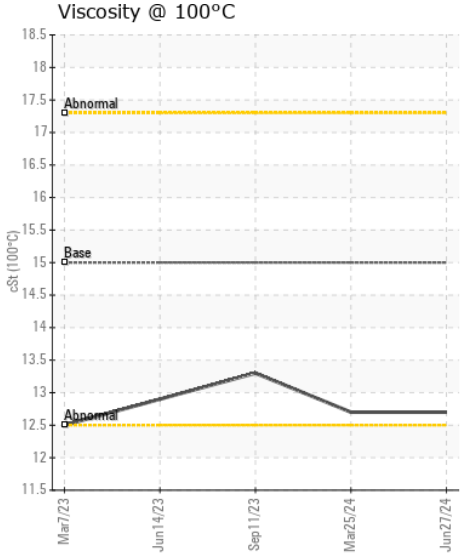
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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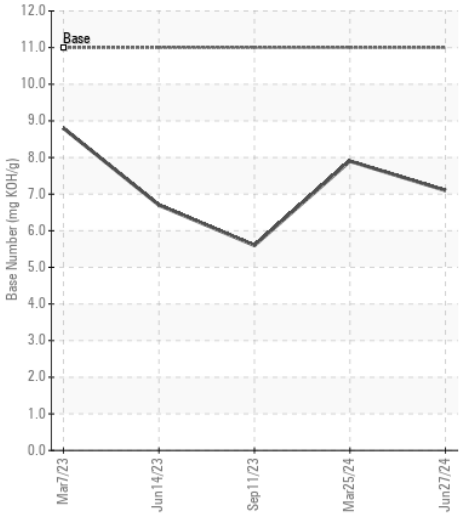

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0021910
Lab Number : 06234486
Unique Number : 11123320
Test Package : FLEET

Received : 12 Jul 2024
Tested : 12 Jul 2024
Diagnosed : 12 Jul 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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