OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 846-5035
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

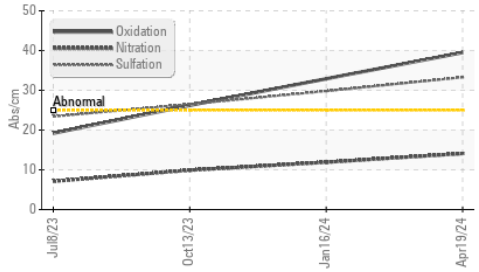
There is no indication of any contamination in the oil.

FLUID CONDITION

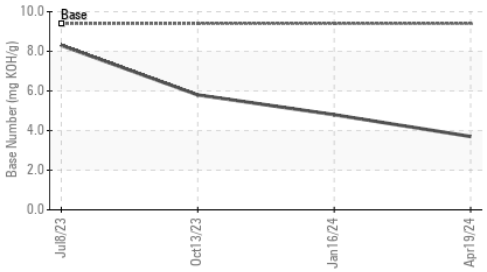
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0019348	RPL0017374	RPL0015853
Sample Date		Client Info		19 Apr 2024	16 Jan 2024	13 Oct 2023
Machine Age	mls	Client Info		20683	15465	9860
Oil Age	mls	Client Info		20683	15465	9859
Filter Age	mls	Client Info		20683	15465	9859
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	ATTENTION	MARGINAL
Iron	ppm	ASTM D5185m	>110	153	105	53
Chromium	ppm	ASTM D5185m	>4	2	2	<1
Nickel	ppm	ASTM D5185m	>2	<1	1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	10	7	6
Lead	ppm	ASTM D5185m	>45	<1	<1	0
Copper	ppm	ASTM D5185m	>85	59	60	51
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	31	32	27
Potassium	ppm	ASTM D5185m	>20	10	9	5
Fuel		WC Method	>5	<1.0	<1.0	▲ 3.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1	0.8	0.5
Nitration	Abs/cm	*ASTM D7624	>20	14.1	11.9	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	33.3	29.8	26.5
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		6	2	4
Boron	ppm	ASTM D5185m	0	78	106	153
Barium	ppm	ASTM D5185m	0	6	2	6
Molybdenum	ppm	ASTM D5185m	0	114	111	108
Manganese	ppm	ASTM D5185m		8	7	5
Magnesium	ppm	ASTM D5185m	0	694	660	670
Calcium	ppm	ASTM D5185m		1532	1331	1378
Phosphorus	ppm	ASTM D5185m		691	648	617
Zinc	ppm	ASTM D5185m		846	794	790
Sulfur	ppm	ASTM D5185m		2557	2306	2235
Oxidation	Abs/.1mm	*ASTM D7414	>25	39.5	32.9	26.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	3.7	4.8	5.8
Visc @ 100°C	cSt	ASTM D445	14	12.6	● 12.2	12.2

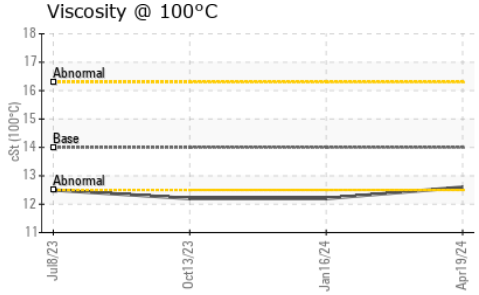
FT-IR (Direct Trend)



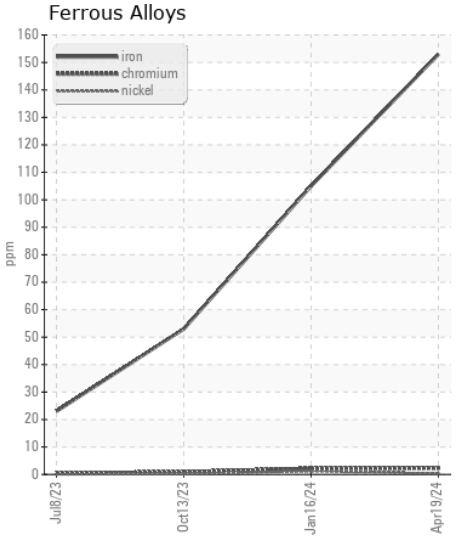
Base Number



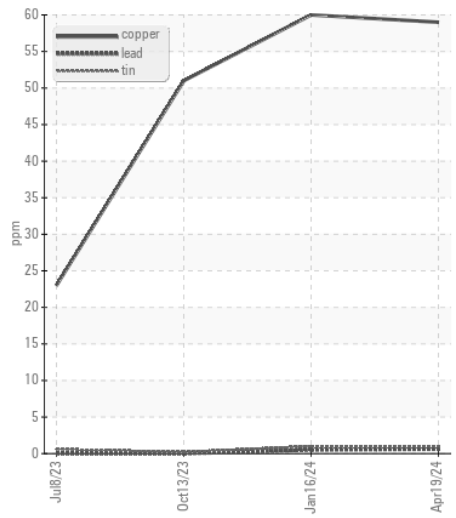
Viscosity @ 100°C



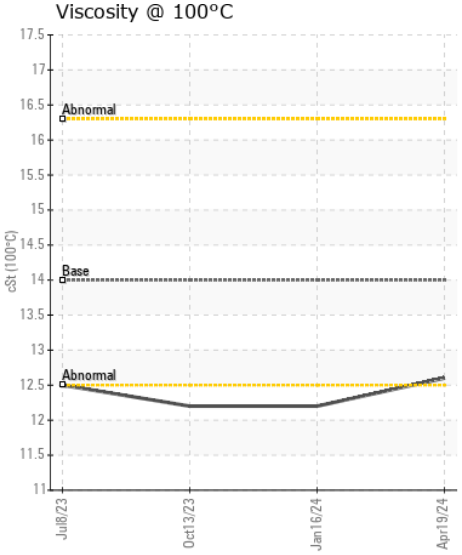
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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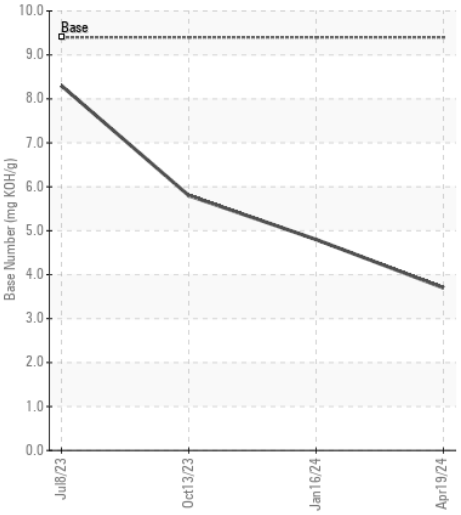

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0019348
Lab Number : 06175320
Unique Number : 11021373
Test Package : FLEET

Received : 10 May 2024
Tested : 13 May 2024
Diagnosed : 13 May 2024 - Sean Felton

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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