OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 459640
Component
Diesel Engine
Fluid
MOBIL DELVAC SUPER 1400 15W40 (44 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

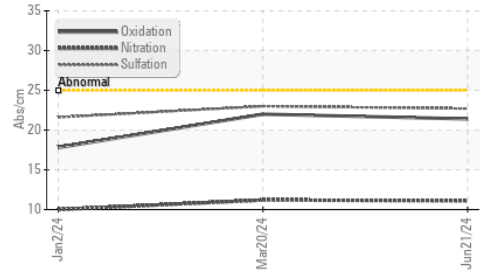
There is no indication of any contamination in the oil.

FLUID CONDITION

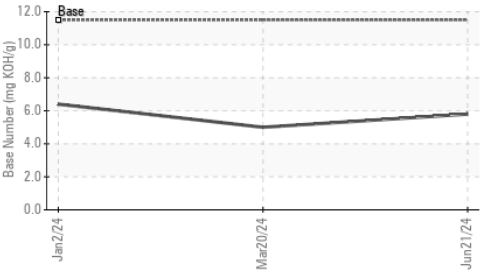
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0019836	RPL0011765	RPL0011730
Sample Date		Client Info		21 Jun 2024	20 Mar 2024	02 Jan 2024
Machine Age	mls	Client Info		102741	69018	28513
Oil Age	mls	Client Info		33723	40505	28513
Filter Age	mls	Client Info		33723	0	28513
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>110	20	35	41
Chromium	ppm	ASTM D5185m	>4	<1	2	1
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	12	17	▲ 34
Lead	ppm	ASTM D5185m	>45	4	3	3
Copper	ppm	ASTM D5185m	>85	2	6	33
Tin	ppm	ASTM D5185m	>4	1	2	3
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>30	9	12	▲ 36
Potassium	ppm	ASTM D5185m	>20	28	35	98
Fuel		WC Method	>5	<1.0	<1.0	0.6
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.6	0.7	0.4
Nitration	Abs/cm	*ASTM D7624	>20	11.1	11.2	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	23.0	21.6
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		8	10	9
Boron	ppm	ASTM D5185m		24	26	20
Barium	ppm	ASTM D5185m		<1	0	14
Molybdenum	ppm	ASTM D5185m		104	111	18
Manganese	ppm	ASTM D5185m		1	1	5
Magnesium	ppm	ASTM D5185m		753	753	707
Calcium	ppm	ASTM D5185m		1408	1333	1234
Phosphorus	ppm	ASTM D5185m		822	790	786
Zinc	ppm	ASTM D5185m		1012	916	837
Sulfur	ppm	ASTM D5185m		3474	3306	2982
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.4	22.0	17.8
Base Number (BN)	mg KOH/g	ASTM D2896	11.5	5.8	5.0	6.4
Visc @ 100°C	cSt	ASTM D445	15.0	13.1	13.1	● 11.8

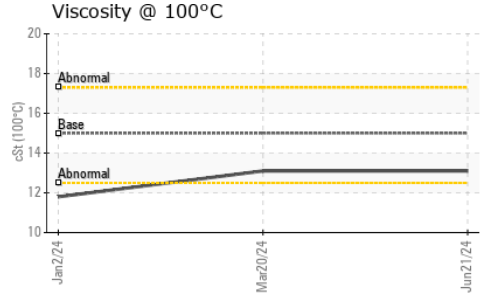
FT-IR (Direct Trend)



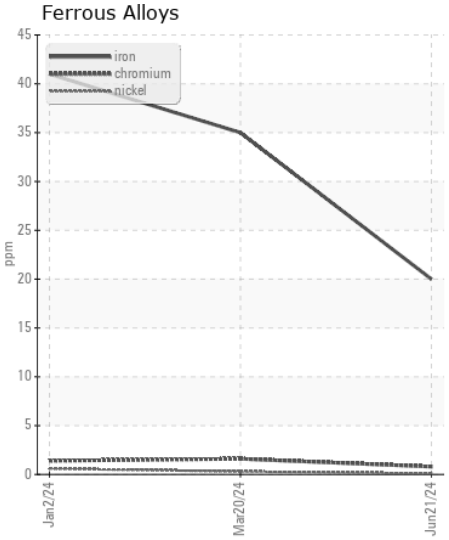
Base Number



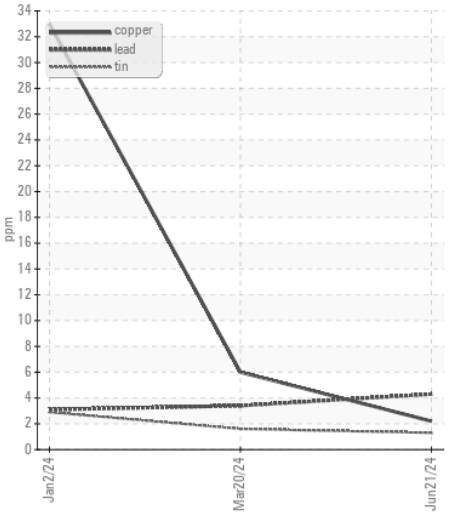
Viscosity @ 100°C



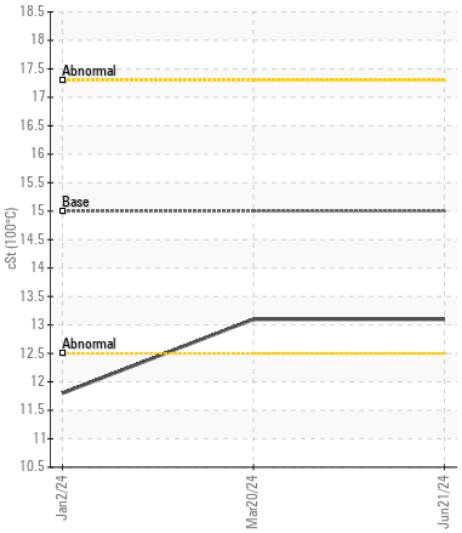
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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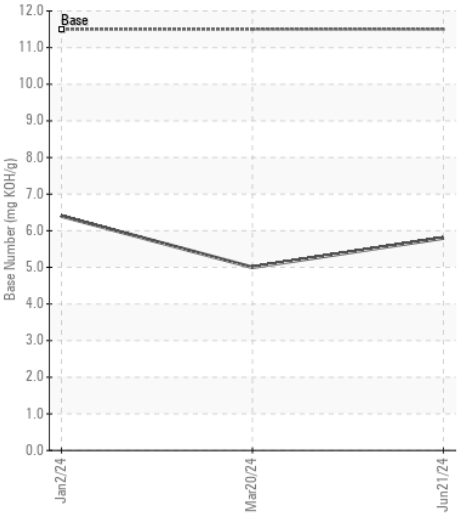

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0019836
Lab Number : 06220620
Unique Number : 11098817
Test Package : FLEET

Received : 26 Jun 2024
Tested : 27 Jun 2024
Diagnosed : 27 Jun 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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