OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ATTENTION

Area
(28380W2)
Machine Id
Peterbilt 846-4638
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (18 QTS)

RECOMMENDATION

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

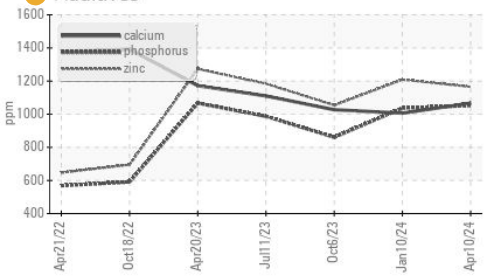
Light fuel dilution occurring. No other contaminants were detected in the oil.

FLUID CONDITION

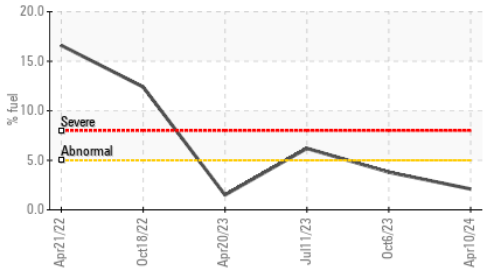
Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0019358	RPL0017398	RPL0015531
Sample Date		Client Info		10 Apr 2024	10 Jan 2024	06 Oct 2023
Machine Age	mls	Client Info		29114	27639	26163
Oil Age	mls	Client Info		2951	1476	0
Filter Age	mls	Client Info		2951	1476	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	NORMAL	ATTENTION
Iron	ppm	ASTM D5185m	>100	12	5	20
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	5
Lead	ppm	ASTM D5185m	>40	1	0	0
Copper	ppm	ASTM D5185m	>330	2	2	6
Tin	ppm	ASTM D5185m	>15	1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	5	3	5
Potassium	ppm	ASTM D5185m	>20	8	4	13
Fuel	%	ASTM D3524	>5	▲ 2.1	<1.0	▲ 3.8
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.0	5.2	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	18.5	22.4
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	<1	1
Boron	ppm	ASTM D5185m	0	5	3	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	62	56	53
Manganese	ppm	ASTM D5185m		1	0	<1
Magnesium	ppm	ASTM D5185m	0	● 891	933	● 823
Calcium	ppm	ASTM D5185m		● 1067	1006	● 1027
Phosphorus	ppm	ASTM D5185m		1052	1037	861
Zinc	ppm	ASTM D5185m		1165	1209	1054
Sulfur	ppm	ASTM D5185m		3421	3285	2643
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	15.2	22.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	8.9	9.4	7.3
Visc @ 100°C	cSt	ASTM D445	14	12.3	12.7	12.2

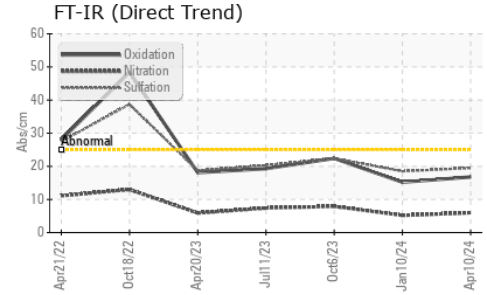
Additives



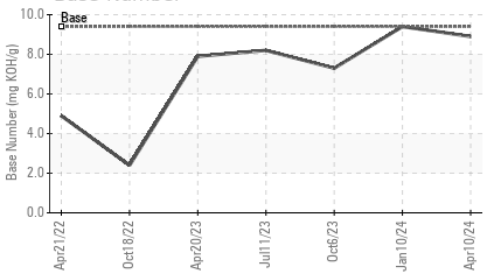
Fuel Dilution



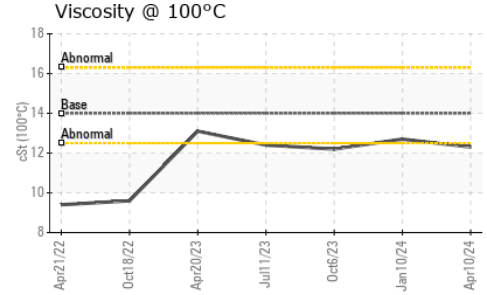
FT-IR (Direct Trend)



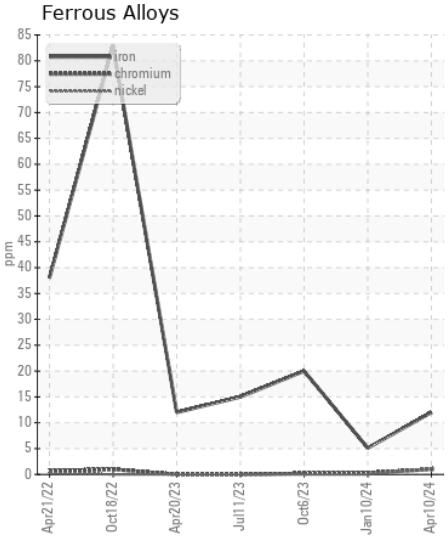
Base Number



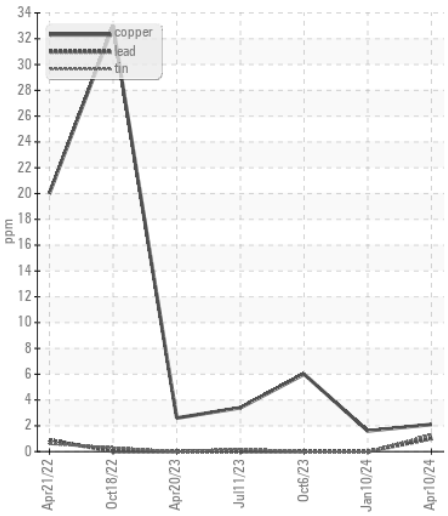
Viscosity @ 100°C



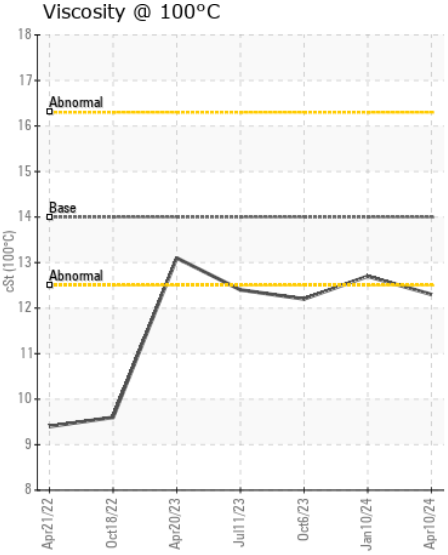
Ferrous Alloys



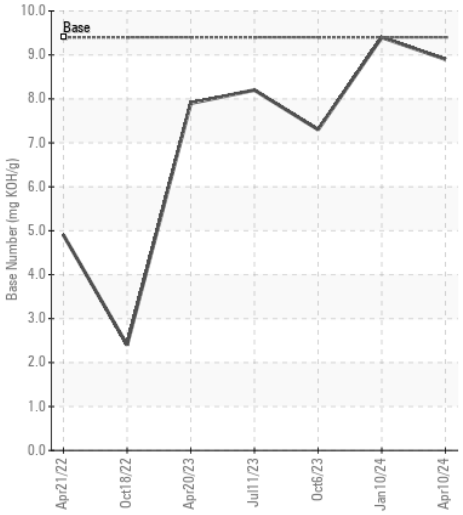
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0019358
Lab Number : 06152939
Unique Number : 10983017
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

Received : 18 Apr 2024
Tested : 22 Apr 2024
Diagnosed : 22 Apr 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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