OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	MARGINAL

Machine Id
PETERBILT 8465107
Component
1 Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- Shots)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

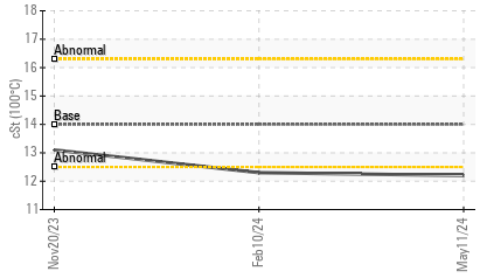
There is no indication of any contamination in the oil.

FLUID CONDITION

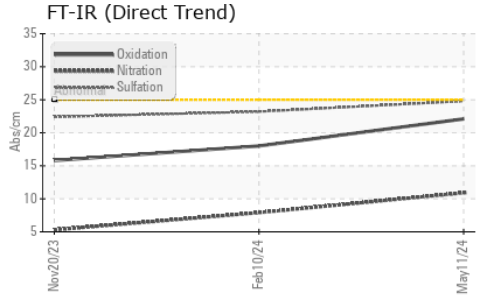
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0020400	RPL0017991	RPL0016350
Sample Date		Client Info		11 May 2024	10 Feb 2024	20 Nov 2023
Machine Age	mls	Client Info		10972	2559	663
Oil Age	mls	Client Info		10309	2559	663
Filter Age	mls	Client Info		10309	2559	663
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Filter Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				MARGINAL	ATTENTION	NORMAL
Iron	ppm	ASTM D5185m	>110	70	31	14
Chromium	ppm	ASTM D5185m	>4	2	<1	<1
Nickel	ppm	ASTM D5185m	>2	1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	1	<1	0
Aluminum	ppm	ASTM D5185m	>25	9	4	4
Lead	ppm	ASTM D5185m	>45	<1	0	0
Copper	ppm	ASTM D5185m	>85	69	58	21
Tin	ppm	ASTM D5185m	>4	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>30	31	28	20
Potassium	ppm	ASTM D5185m	>20	14	6	2
Fuel	%	ASTM D3524	>5	<1.0	▲ 3.5	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.5	0.3	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.9	7.9	5.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.8	23.2	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		5	0	3
Boron	ppm	ASTM D5185m	0	142	● 230	277
Barium	ppm	ASTM D5185m	0	8	7	6
Molybdenum	ppm	ASTM D5185m	0	110	● 102	99
Manganese	ppm	ASTM D5185m		6	4	3
Magnesium	ppm	ASTM D5185m	0	647	581	634
Calcium	ppm	ASTM D5185m		1387	1177	1380
Phosphorus	ppm	ASTM D5185m		605	● 611	717
Zinc	ppm	ASTM D5185m		773	● 687	775
Sulfur	ppm	ASTM D5185m		2271	● 2006	2235
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.1	18.0	15.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	6.2	7.6	9.0
Visc @ 100°C	cSt	ASTM D445	14	▲ 12.2	12.3	13.1

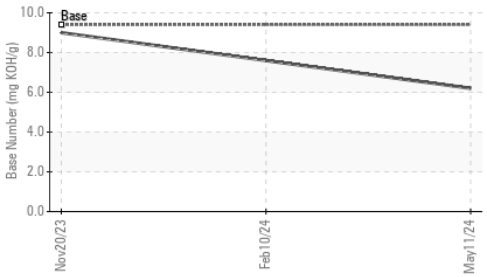
Viscosity @ 100°C



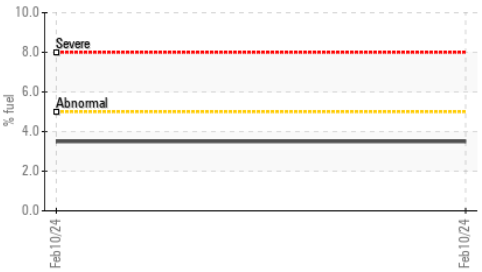
FT-IR (Direct Trend)



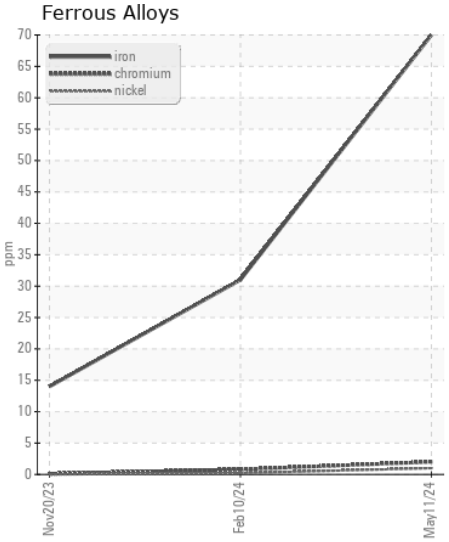
Base Number



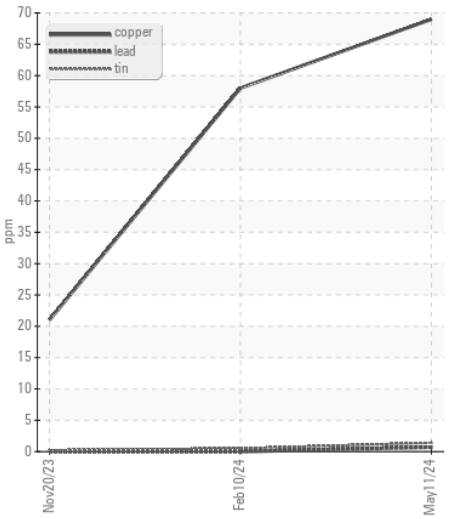
Fuel Dilution



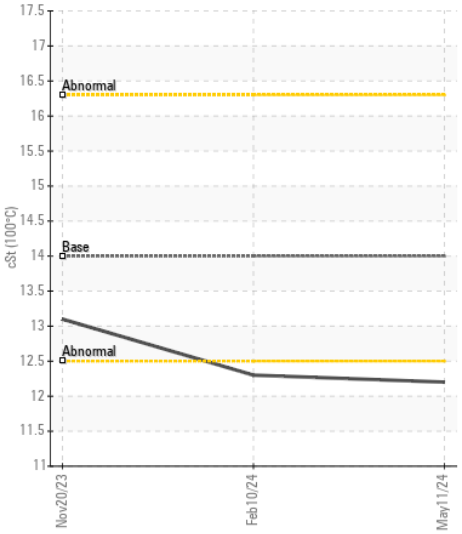
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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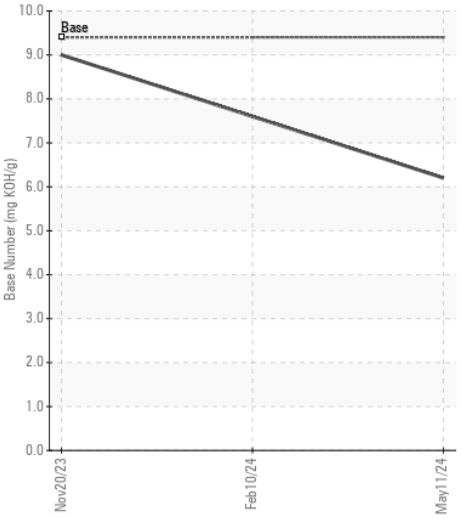

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0020400
Lab Number : 06191911
Unique Number : 11048663
Test Package : FLEET (Additional Tests: FUELDILUTION, PercentFuel)

Received : 28 May 2024
Tested : 03 Jun 2024
Diagnosed : 03 Jun 2024 - Jonathan Hester

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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