OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 139-263
Component
Diesel Engine
Fluid
CHEVRON DELO 400 MULTIGRADE 15W40 (44 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

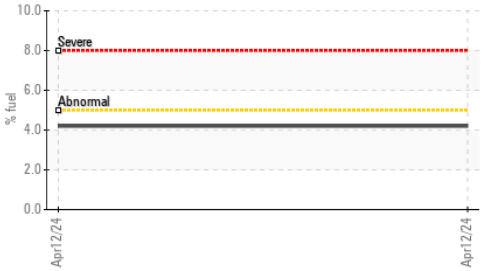
Light fuel dilution occurring. No other contaminants were detected in the oil.

FLUID CONDITION

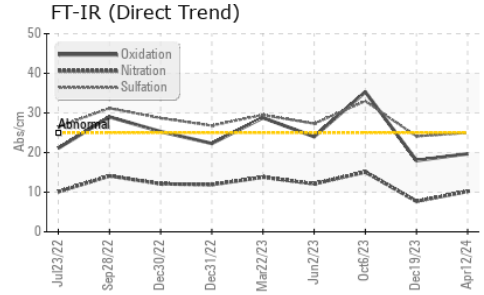
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0016784	RPL0016650	RPL0014919
Sample Date		Client Info		12 Apr 2024	19 Dec 2023	06 Oct 2023
Machine Age		Client Info		377793	40000	349643
Oil Age		Client Info		44487	375865	333306
Filter Age		Client Info		0	375865	0
Oil Changed		Client Info		N/A	Changed	N/A
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				MARGINAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	19	12	65
Chromium	ppm	ASTM D5185m	>20	<1	0	2
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	4	11
Lead	ppm	ASTM D5185m	>40	3	2	23
Copper	ppm	ASTM D5185m	>330	0	<1	4
Tin	ppm	ASTM D5185m	>15	<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	>25	9	7	17
Potassium	ppm	ASTM D5185m	>20	4	9	43
Fuel	%	ASTM D3524	>5	▲ 4.2	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.7	0.3	1
Nitration	Abs/cm	*ASTM D7624	>20	10.2	7.7	15.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.0	24.1	33.0
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		0	<1	2
Boron	ppm	ASTM D5185m	151	324	221	34
Barium	ppm	ASTM D5185m	0.4	0	0	3
Molybdenum	ppm	ASTM D5185m	250	132	100	212
Manganese	ppm	ASTM D5185m		0	<1	1
Magnesium	ppm	ASTM D5185m	0	684	610	674
Calcium	ppm	ASTM D5185m	2046	1520	1057	1574
Phosphorus	ppm	ASTM D5185m	1043	709	531	709
Zinc	ppm	ASTM D5185m	943	812	606	908
Sulfur	ppm	ASTM D5185m	5012	2689	1972	2668
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.7	18.0	35.3
Base Number (BN)	mg KOH/g	ASTM D2896	12.5	9.4	9.6	3.6
Visc @ 100°C	cSt	ASTM D445	14.4	12.3	13.2	14.5

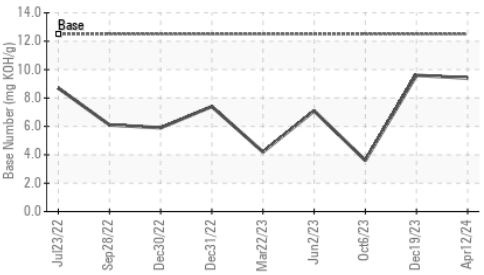
Fuel Dilution



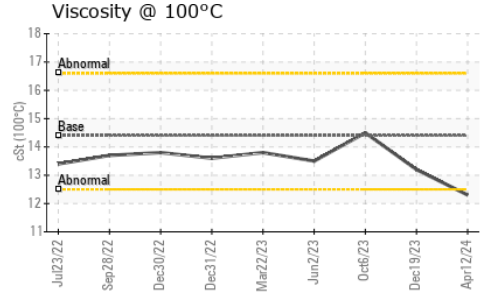
FT-IR (Direct Trend)



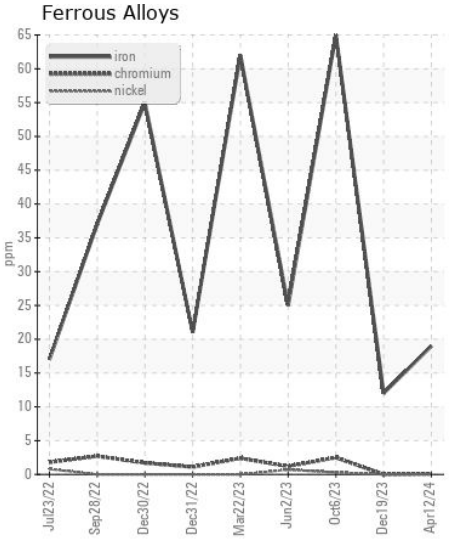
Base Number



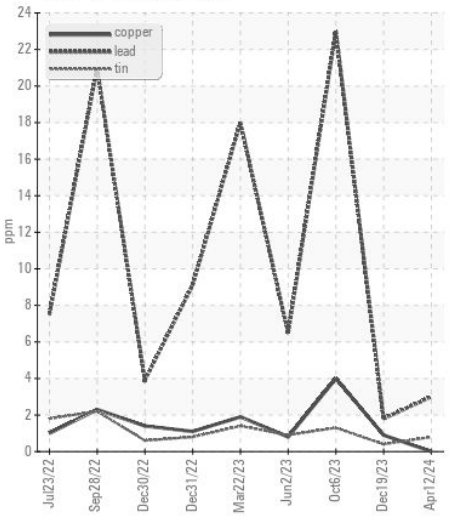
Viscosity @ 100°C



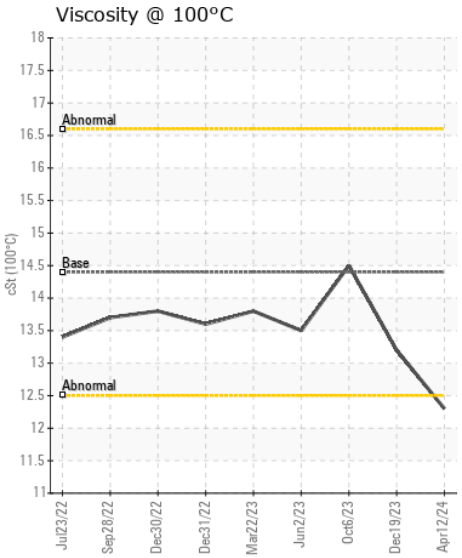
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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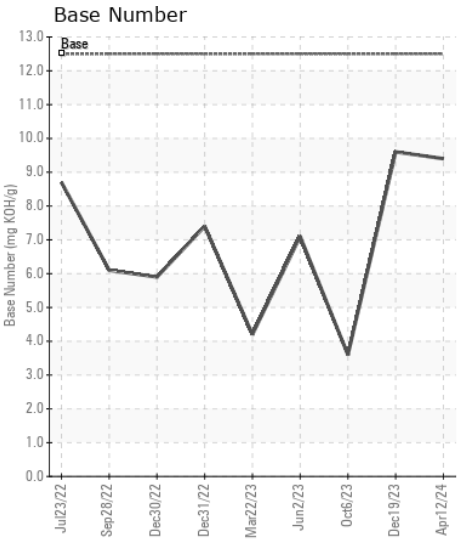

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0016784
Lab Number : 06151683
Unique Number : 10981761
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

Received : 17 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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