OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ATTENTION

Machine Id
PETERBILT 8464299
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER 15W40 (--- GAL)

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

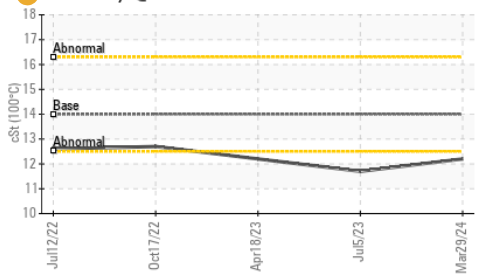
Light fuel dilution occurring.

FLUID CONDITION

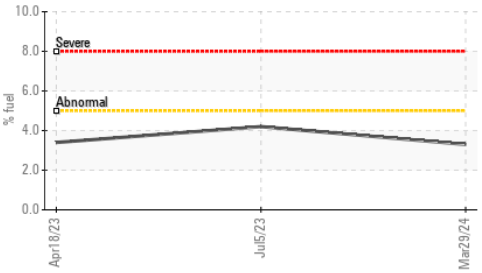
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0019264	RPL0011930	RPL0011880
Sample Date		Client Info		29 Mar 2024	05 Jul 2023	18 Apr 2023
Machine Age	mls	Client Info		62094	54343	52376
Oil Age	mls	Client Info		54343	54343	0
Filter Age	mls	Client Info		0	54343	0
Oil Changed		Client Info		Not Changd	Filtered	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	ABNORMAL	ATTENTION
Iron	ppm	ASTM D5185m	>110	7	19	13
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>25	8	10	6
Lead	ppm	ASTM D5185m	>45	0	0	2
Copper	ppm	ASTM D5185m	>85	4	20	18
Tin	ppm	ASTM D5185m	>4	0	<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	4	6	5
Potassium	ppm	ASTM D5185m	>20	13	15	13
Fuel	%	ASTM D3524	>5	▲ 3.3	▲ 4.2	▲ 3.4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.6	8.9	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	23.4	23.3
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		2	4	3
Boron	ppm	ASTM D5185m	0	100	45	47
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	106	35	33
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m	0	654	578	527
Calcium	ppm	ASTM D5185m		1316	1762	1566
Phosphorus	ppm	ASTM D5185m		716	797	749
Zinc	ppm	ASTM D5185m		885	955	889
Sulfur	ppm	ASTM D5185m		3599	3127	3049
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	21.9	21.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	7.1	8.6	9.3
Visc @ 100°C	cSt	ASTM D445	14	● 12.2	▲ 11.7	● 12.2

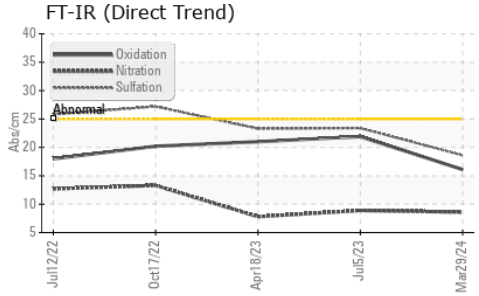
Viscosity @ 100°C



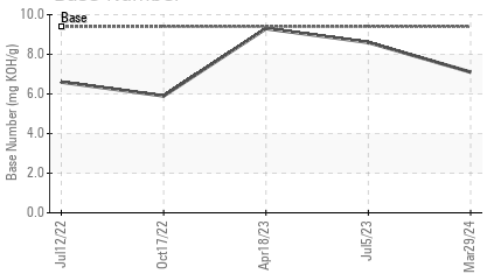
Fuel Dilution



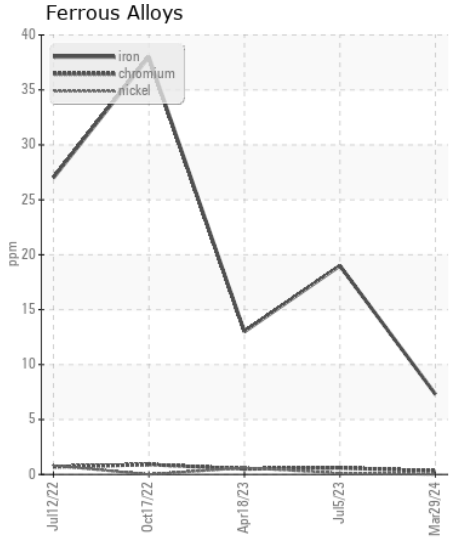
FT-IR (Direct Trend)



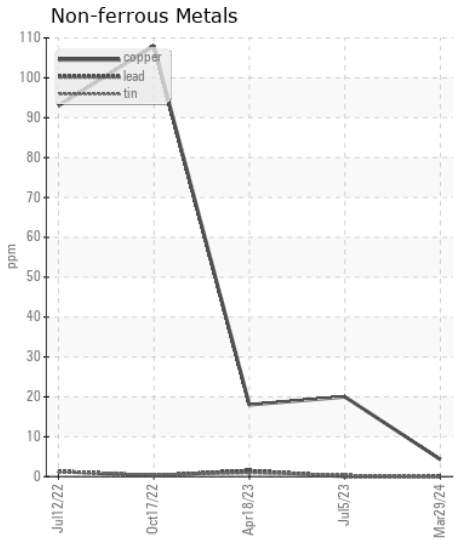
Base Number



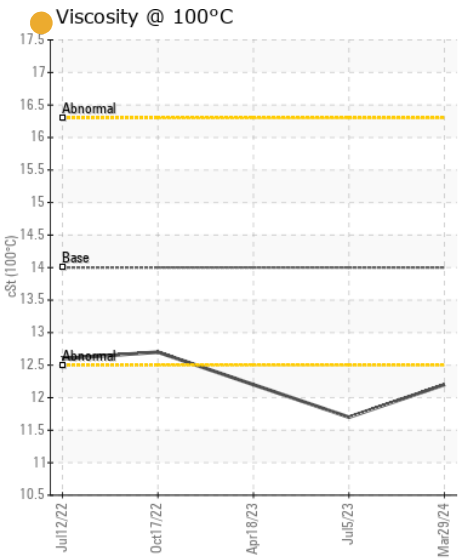
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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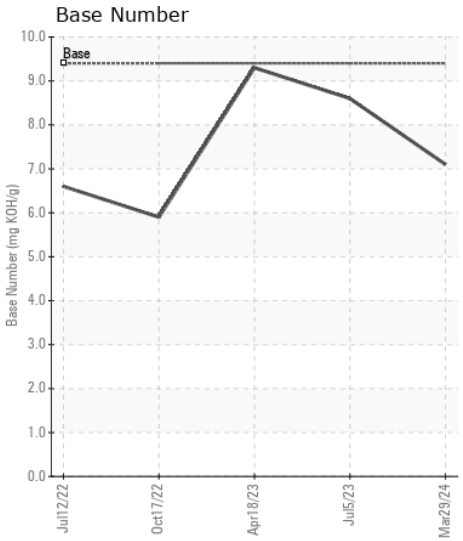

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0019264
Lab Number : 06225922
Unique Number : 11109415
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

Received : 02 Jul 2024
Tested : 05 Jul 2024
Diagnosed : 05 Jul 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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