OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
PACCAR 8464910
Component
Diesel Engine
Fluid
MOBIL 15W40 (20 QTS)

RECOMMENDATION

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

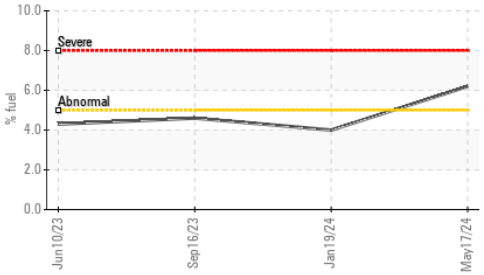
There is a moderate amount of fuel present in the oil.

FLUID CONDITION

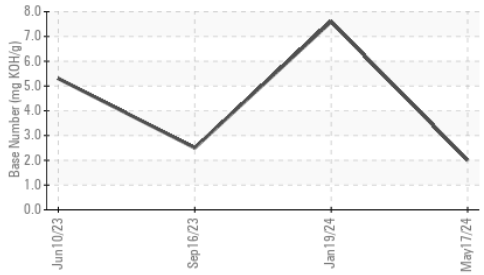
Fuel is present in the oil and is lowering the viscosity. The BN level is low.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0020386	RPL0017380	RPL0013105
Sample Date		Client Info		17 May 2024	19 Jan 2024	16 Sep 2023
Machine Age	mls	Client Info		47162	32480	24693
Oil Age	mls	Client Info		22469	8787	0
Filter Age	mls	Client Info		22469	8787	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	53	31	106
Chromium	ppm	ASTM D5185m	>20	3	3	8
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	19	8	38
Lead	ppm	ASTM D5185m	>40	<1	<1	1
Copper	ppm	ASTM D5185m	>330	16	15	79
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	13	10	▲ 37
Potassium	ppm	ASTM D5185m	>20	42	11	43
Fuel	%	ASTM D3524	>5	▲ 6.2	▲ 4.0	▲ 4.6
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.2	0.4
Nitration	Abs/cm	*ASTM D7624	>20	11.3	7.6	11.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	30.3	22.8	30.1
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	>118	2	0	8
Boron	ppm	ASTM D5185m		8	9	77
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		64	62	103
Manganese	ppm	ASTM D5185m		2	2	8
Magnesium	ppm	ASTM D5185m		891	877	663
Calcium	ppm	ASTM D5185m		1044	1017	1496
Phosphorus	ppm	ASTM D5185m		828	951	681
Zinc	ppm	ASTM D5185m		1138	1118	870
Sulfur	ppm	ASTM D5185m		3076	3145	2836
Oxidation	Abs/.1mm	*ASTM D7414	>25	37.2	22.0	36.4
Base Number (BN)	mg KOH/g	ASTM D2896		▲ 2.0	7.6	▲ 2.5
Visc @ 100°C	cSt	ASTM D445		▲ 10.7	▲ 11.6	▲ 11.4

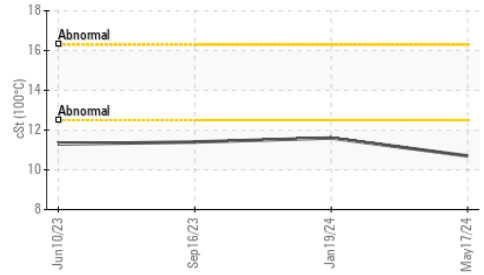
Fuel Dilution



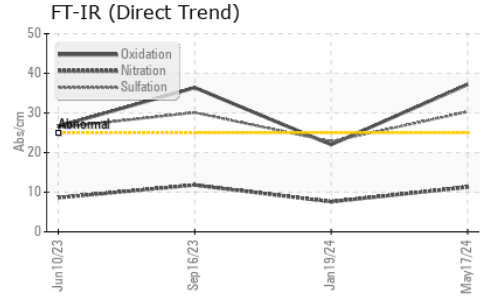
Base Number



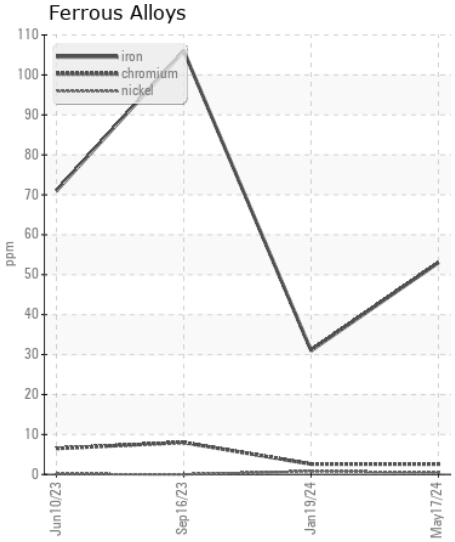
Viscosity @ 100°C



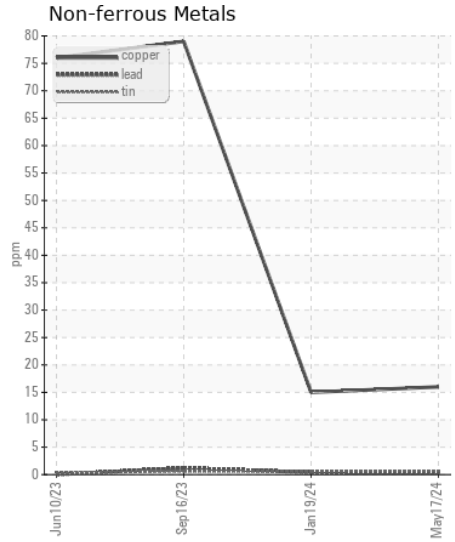
FT-IR (Direct Trend)



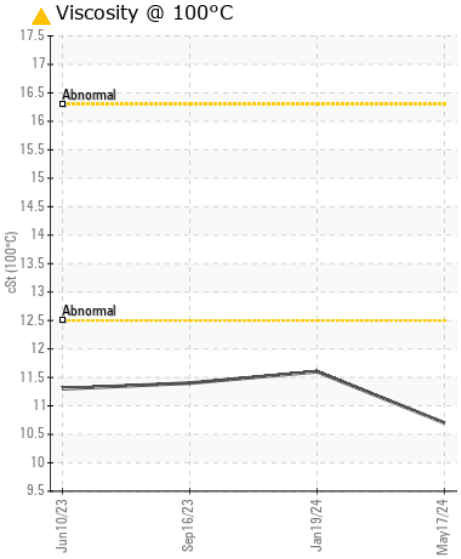
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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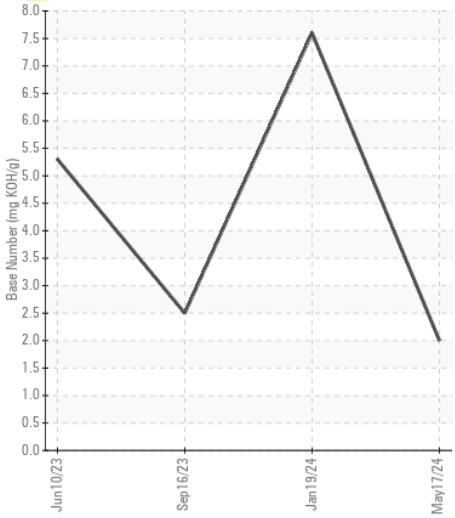

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0020386
Lab Number : 06190187
Unique Number : 11046939
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

Received : 24 May 2024
Tested : 30 May 2024
Diagnosed : 30 May 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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