OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PACCAR 8464041
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER 15W40 (48 QTS)

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

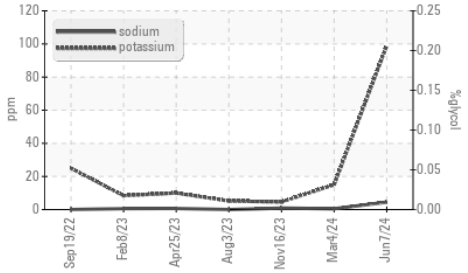
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

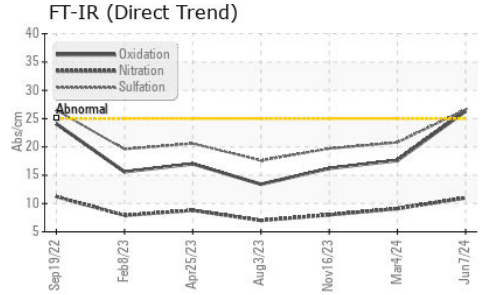
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0021051	RPL0017958	RPL0016373
Sample Date		Client Info		07 Jun 2024	04 Mar 2024	16 Nov 2023
Machine Age	mls	Client Info		221484	211228	204877
Oil Age	mls	Client Info		221484	22393	204877
Filter Age	mls	Client Info		0	22393	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	36	10	3
Chromium	ppm	ASTM D5185m	>20	3	<1	0
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	32	5	2
Lead	ppm	ASTM D5185m	>40	9	<1	0
Copper	ppm	ASTM D5185m	>330	6	3	1
Tin	ppm	ASTM D5185m	>15	3	<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	15	6	4
Potassium	ppm	ASTM D5185m	>20	99	15	5
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	11.0	9.1	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.6	20.8	19.7
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		4	<1	<1
Boron	ppm	ASTM D5185m	0	4	2	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	60	62	56
Manganese	ppm	ASTM D5185m		2	<1	0
Magnesium	ppm	ASTM D5185m	0	986	929	920
Calcium	ppm	ASTM D5185m		1128	1120	1071
Phosphorus	ppm	ASTM D5185m		1057	987	1049
Zinc	ppm	ASTM D5185m		1291	1232	1181
Sulfur	ppm	ASTM D5185m		3503	3275	2899
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.3	17.6	16.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	5.0	7.2	8.5
Visc @ 100°C	cSt	ASTM D445	14	13.0	13.4	13.6

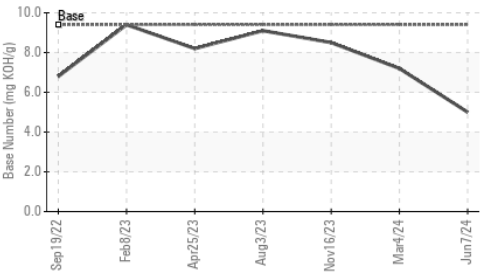
Glycol Contamination



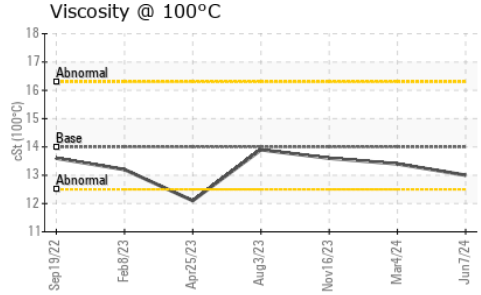
FT-IR (Direct Trend)



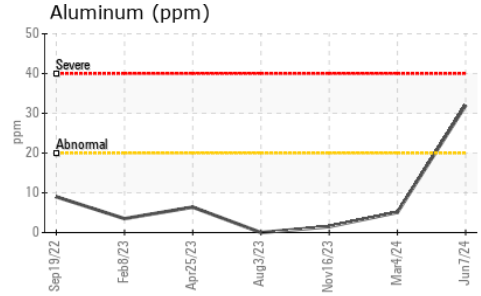
Base Number



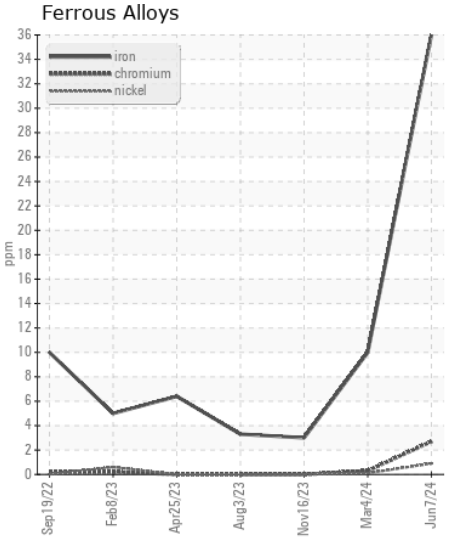
Viscosity @ 100°C



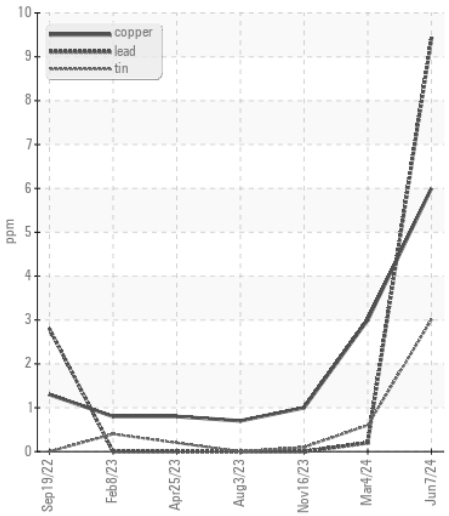
Aluminum (ppm)



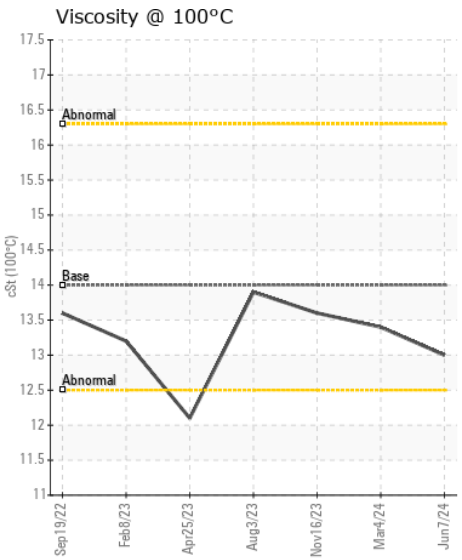
Ferrous Alloys



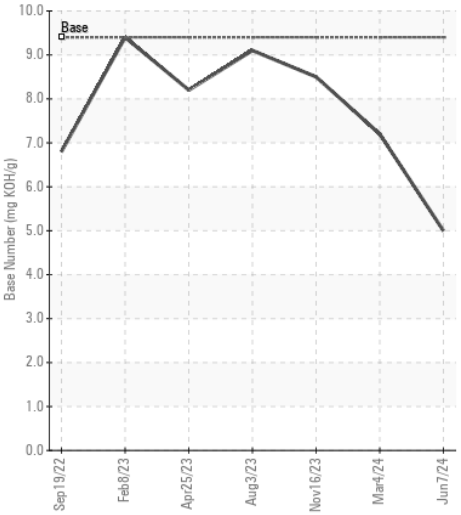
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: RPL0021051	**Received**	: 18 Jun 2024
Lab Number	: 06213259	**Tested**	: 19 Jun 2024
Unique Number	: 11086123	**Diagnosed**	: 20 Jun 2024 - Sean Felton
Test Package	: FLEET		

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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