



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
PACCAR 8465153
 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0021009	RPL0019449	RPL0016797
Sample Date		Client Info		31 May 2024	06 Mar 2024	06 Dec 2023
Machine Age	mls	Client Info		25690	15506	8587
Oil Age	mls	Client Info		25690	15506	8587
Filter Age	mls	Client Info		25690	15506	0
Oil Changed		Client Info		Filtered	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ATTENTION	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	51	32	15
Chromium	ppm	ASTM D5185m	>20	2	1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	20	13	7
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	19	16	10
Tin	ppm	ASTM D5185m	>15	2	2	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

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. No other contaminants were detected in the oil.

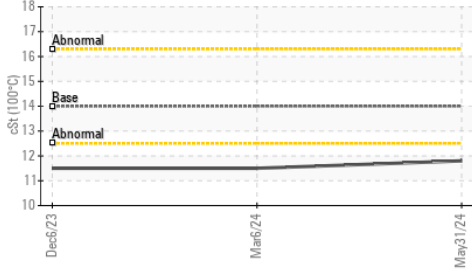
Silicon	ppm	ASTM D5185m	>25	18	17	12
Potassium	ppm	ASTM D5185m	>20	82	49	28
Fuel	%	ASTM D3524	>5	<1.0	<1.0	0.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.7	9.3	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.4	20.8	18.6
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

FLUID CONDITION

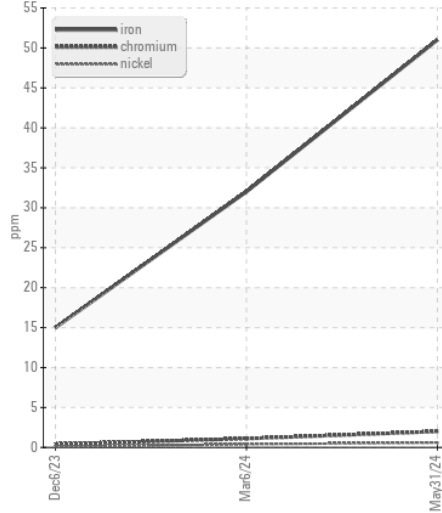
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		3	2	2
Boron	ppm	ASTM D5185m	0	21	36	59
Barium	ppm	ASTM D5185m	0	3	<1	0
Molybdenum	ppm	ASTM D5185m	0	9	10	5
Manganese	ppm	ASTM D5185m		3	2	1
Magnesium	ppm	ASTM D5185m	0	761	743	744
Calcium	ppm	ASTM D5185m		1317	1284	1198
Phosphorus	ppm	ASTM D5185m		720	735	704
Zinc	ppm	ASTM D5185m		896	885	851
Sulfur	ppm	ASTM D5185m		3071	3092	2950
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	15.8	14.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	5.3	6.1	7.3
Visc @ 100°C	cSt	ASTM D445	14	11.8	11.5	11.5

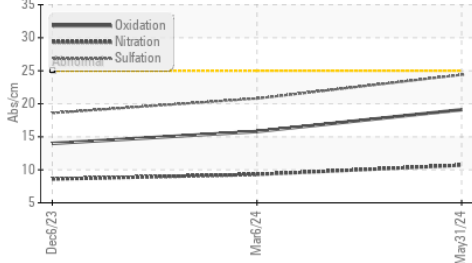
● Viscosity @ 100°C



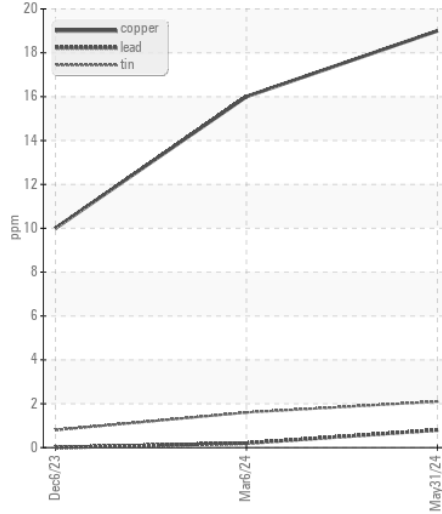
Ferrous Alloys



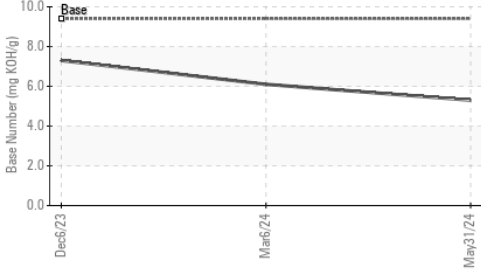
FT-IR (Direct Trend)



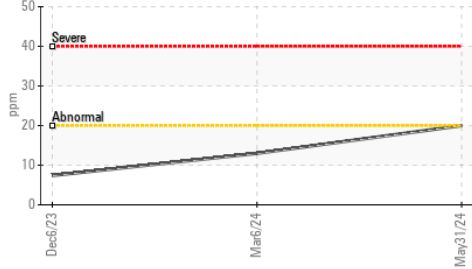
Non-ferrous Metals



Base Number



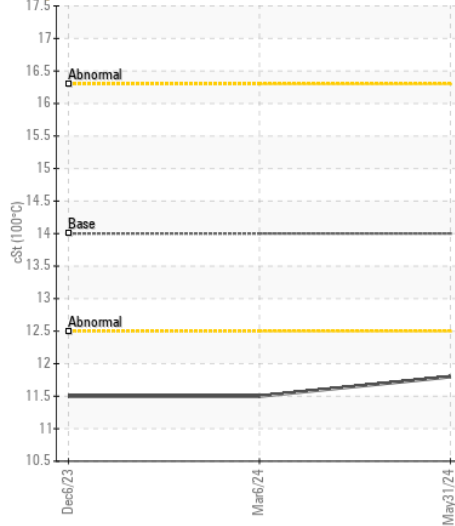
Aluminum (ppm)



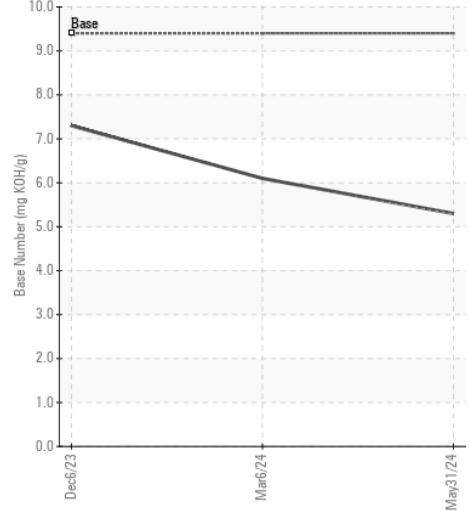
Fuel Dilution



● Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0021009 **Received** : 18 Jun 2024
Lab Number : 06213158 **Tested** : 20 Jun 2024
Unique Number : 11086022 **Diagnosed** : 20 Jun 2024 - Don Baldrige
Test Package : FLEET (Additional Tests: FuelDilution, Glycol)

RTL PACLEASE - 7006 - Pico Rivera
 7837 Telegraph Rd
 Pico Rivera, CA
 US 90660
 Contact: GERARDO CARROLA
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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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