

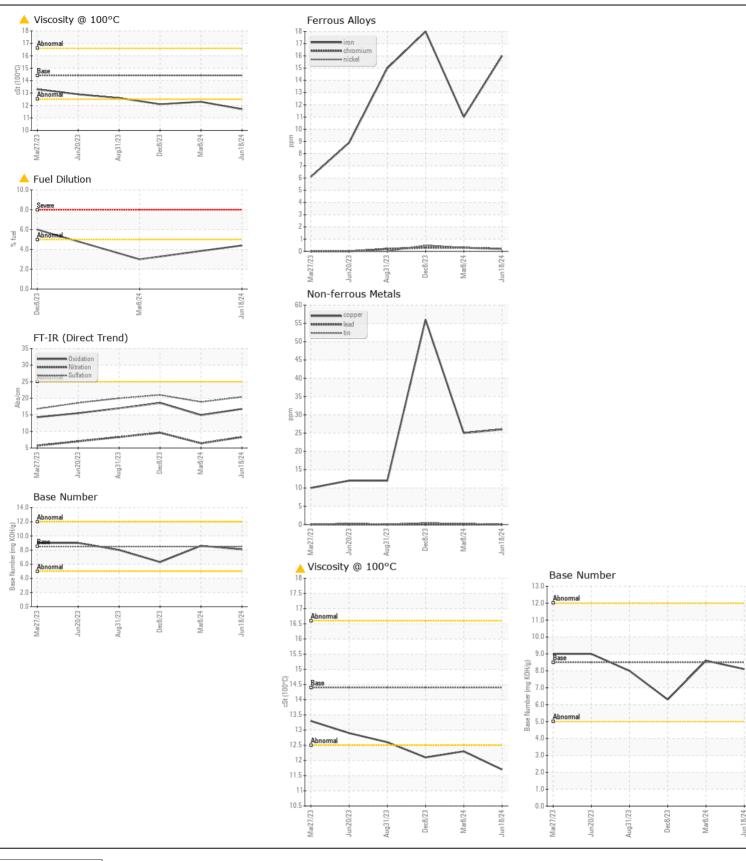
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL MARGINAL ABNORMAL

Machine Id

PACCAR 8464359

Component Diesel Engine							
DIESEL ENGINE OIL SAE 40 (GAL)							
	_						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		RPL0021842	RPL0017955	RPL0016805
	Sample Date	and a	Client Info		18 Jun 2024	08 Mar 2024	08 Dec 2023
	Machine Age	mls	Client Info		72924	67571	64524
	Oil Age	mls	Client Info		0	67571	64524
	Filter Age Oil Changed	mls	Client Info		0 Nat Ohan ad	0	0 Not Chanad
	Filter Changed		Client Info		Not Changd Changed	N/A N/A	Not Change
	Sample Status		Ciletit IIIIO		ABNORMAL	ABNORMAL	Changed ABNORMAL
						ADINOTIVIAL	ADNOTIVIAL
WEAR Metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m	>100	16	11	18
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	<1	0	<1
	Aluminum	ppm	ASTM D5185m	>20	13	10	12
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	26	25	56
	Tin	ppm	ASTM D5185m	>15	0	<1	<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	Silicon	ppm	ASTM D5185m	\25	4	4	5
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. Light fuel dilution occurring.	Potassium	ppm	ASTM D5185m		32	27	28
	Fuel	%	ASTM D3524	>5	<u> </u>	<u>△</u> 3.0	<u>△</u> 6.0
	Water	, , ,	WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.3	6.4	9.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	18.9	21.0
	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
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m	>216	2	<1	2
	Boron	ppm	ASTM D5185m		3	4	6
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		59	59	51
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m	450	878	895	835
	Calcium	ppm	ASTM D5185m		1061	1062	1002
	Phosphorus	ppm	ASTM D5185m	1150	1143	996	884
	Zinc	ppm	ASTM D5185m	1350	1227	1200	1133
	Sulfur	ppm	ASTM D5185m	4250	3135	3276	2678
	Oxidation	Abs/.1mm	*ASTM D7414		16.8	14.9	18.6
	Base Number (BN)	mg KOH/g	ASTM D2896		8.1	8.6	6.3
	Visc @ 100°C	cSt	ASTM D445	14.4	<u> </u>	▲ 12.3	<u>▲</u> 12.1







Certificate L2367

Laboratory

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No.

: RPL0021842 Lab Number : 06230037

Tested Unique Number: 11113530 Diagnosed Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

: 11 Jul 2024

: 08 Jul 2024

: 11 Jul 2024 - Wes Davis

RTL PACLEASE - 7006 - Pico Rivera 7837 Telegraph Rd Pico Rivera, CA US 90660

Contact: GERARDO CARROLA carrolag@rushenterprises.com T:

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)

Received

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