WEAR CONTAMINATION FLUID CONDITION

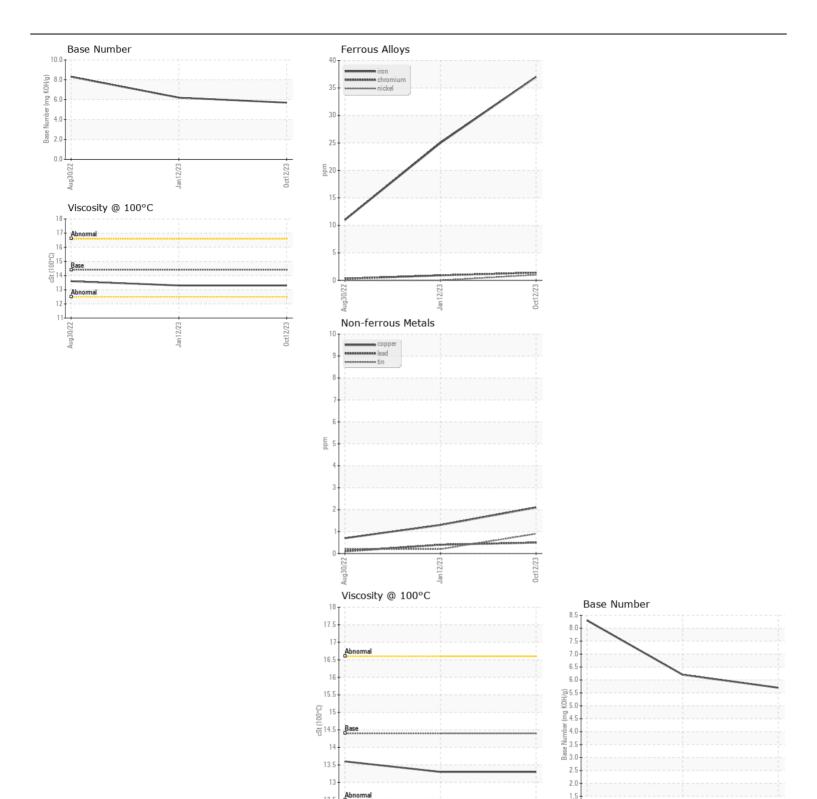
NORMAL NORMAL NORMAL

Machine Id

PETERBILT 117353

Component
Diesel Fngine

Engine							
CHEVRON 15W40 (28 QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		RPL0009873	RPL0003412	RPL000335
	Sample Date		Client Info		12 Oct 2023	12 Jan 2023	30 Aug 202
	Machine Age	mls	Client Info		123975	123975	0
	Oil Age	mls	Client Info		123975	18996	0
	Filter Age	mls	Client Info		0	18996	0
	Oil Changed		Client Info		N/A	Changed	N/A
	Filter Changed		Client Info		N/A	Changed	N/A
	Sample Status				NORMAL	NORMAL	NORMA
WEAR	Iron	ppm	ASTM D5185m	>100	37	25	11
VEAIL	Chromium	ppm	ASTM D5185m		1	<1	<1
All component wear rates are normal.	Nickel		ASTM D5185m		1	0	0
	Titanium	ppm	ASTM D5185m	74	<1	0	0
	Silver		ASTM D5185m	. 2	0	0	<1
	Aluminum	ppm	ASTM D5185m		16	12	7
		ppm					
	Lead	ppm	ASTM D5185m ASTM D5185m		<1 2	<1	<1
	Copper	ppm				.4	<1
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m	NONE	0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NON
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NON
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	13	8	6
CONTAMINATION	Potassium	ppm	ASTM D5185m		25	12	9
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.	Fuel	ppiii	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	. 2	0.7	0.6	0.3
	Nitration	Abs/cm	*ASTM D7624		10.3	9.7	7.7
	Sulfation	Abs/.1mm	*ASTM D7024		27.2	25.2	21.9
	Silt	scalar	*Visual	NONE	NONE	NONE	NON!
	Debris	scalar	*Visual	NONE	NONE	NONE	NONI
	Sand/Dirt		*Visual	NONE	NONE	NONE	NON
	Appearance	scalar scalar	*Visual	NORML	NORML	NORML	NOR
	Odor	scalar	*Visual	NORML	NORML	NORML	NOR
	Emulsified Water			>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>50	0	2	<1
FI DAIL 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Boron	ppm	ASTM D5185m		92	188	483
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	2
	Molybdenum	ppm	ASTM D5185m		102	87	96
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m		491	401	405
	Calcium	ppm	ASTM D5185m		1725	1507	1565
	Phosphorus	ppm	ASTM D5185m		1123	1034	1194
	Zinc	ppm	ASTM D5185m		1549	1302	1406
	Sulfur	ppm	ASTM D5185m		4147	3701	3514
	Oxidation	Abs/.1mm	*ASTM D7414	>25	21.7	19.8	15.8
	Base Number (BN)		ASTM D2896	-	5.7	6.2	8.3







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: RPL0009873 : 06055254 : 10821203 Test Package : FLEET To discuss this sample report, contact Customer Service at 1-800-237-1369.

12.

11.5

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 09 Jan 2024 Diagnosed

: 10 Jan 2024 Diagnostician : Wes Davis

0.5

0.0

Oct12/23

RTL PACLEASE - 7019 - Birmingham 601 Republic Circle

Birmingham, AL US 35214 Contact: Johnathan King

KingJ1@RushEnterprises.com

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* - 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)

Jan 12/23

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