

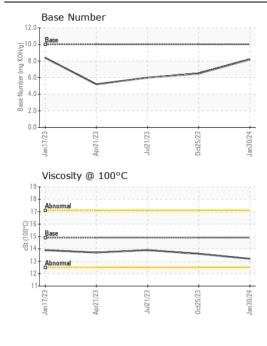
WEAR CONTAMINATION **FLUID CONDITION**

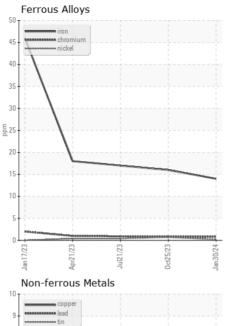
NORMAL NORMAL NORMAL

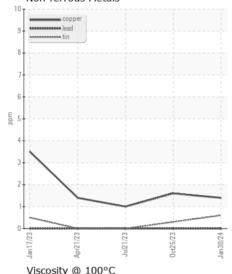
TRUCK - URBAN FREIGHTLINER 71

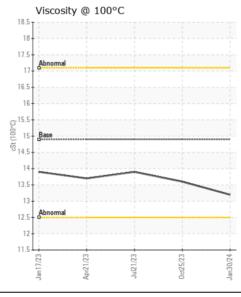
Component Diesel Engine

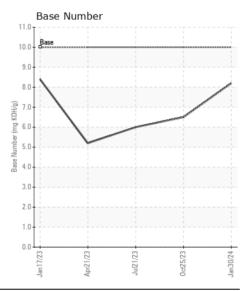
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. (Customer Sample Comment: Revised hour meter reading)	Sample Number		Client Info		PE0003198	PE0001942	PE000224
	Sample Date		Client Info		30 Jan 2024	25 Oct 2023	21 Jul 202
	Machine Age	hrs	Client Info		9281	5613	5122
	Oil Age	hrs	Client Info		490	491	532
	Filter Age	hrs	Client Info		490	491	532
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>80	14	16	17
WEAR	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		7	10	8
	Lead	ppm	ASTM D5185m	>30	0	0	0
	Copper	ppm	ASTM D5185m	>150	1	2	1
	Tin	ppm	ASTM D5185m	>5	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	5	6	6
ONTAMINATION	Potassium	ppm	ASTM D5185m		14	15	29
There is no indication of any contamination in the oil.	Fuel	PP	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.6	0.8	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	10.1	10.4	11.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	24.4	22.8
	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	NORN
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		18	4	5
	Boron	ppm	ASTM D5185m		20	162	22
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	0
	Molybdenum	ppm	ASTM D5185m		70	83	89
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		882	344	113
	Calcium	ppm	ASTM D5185m		1189	1417	2207
	Phosphorus	ppm	ASTM D5185m		1097	1045	1098
	Zinc	ppm	ASTM D5185m		1308	1228	1329
	Sulfur	ppm	ASTM D5185m		3221	3087	4453
			*AOTA DTAA	0.5	170	100	100
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414 ASTM D2896		17.8 8.2	19.9 6.5	18.2













Laboratory Sample No.

Lab Number : 06089406 Unique Number : 10876851

: PE0003198

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

Diagnosed

: 15 Feb 2024 : 16 Feb 2024 - Don Baldridge

: 14 Feb 2024

Test Package: CONST (Additional Tests: FT-IR, ICP, KV100, SCREEN, TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

PetroCard - Aberdeen 110 Commerce St Aberdeen, WA US 98520 Contact: Sean McNealley smcnealley@petrocard.com

* - 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)

T: F: