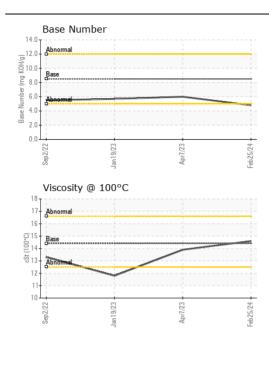
WEAR CONTAMINATION FLUID CONDITION

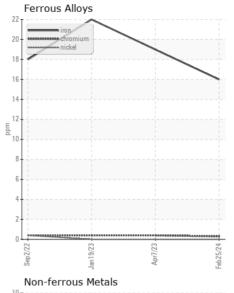
NORMAL NORMAL NORMAL

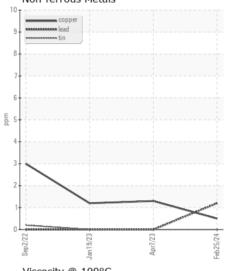
{UNASSIGNED} **KENWORTH 440**

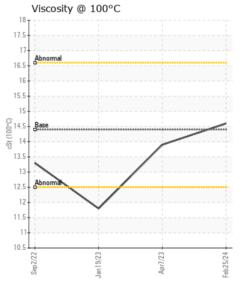
Component

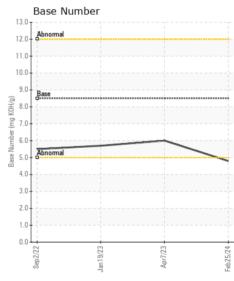
1 Diesel Engine							
DIESEL ENGINE OIL SAE 15W40 (44 QTS) RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	OOW	Client Info	LIIIIU/ADII	PCA0082952	PCA0069345	
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		25 Feb 2024	07 Apr 2023	19 Jan 2023
	Machine Age	mls	Client Info		0	116744	95288
	Oil Age	mls	Client Info		0	21456	19238
	Filter Age	mls	Client Info		0	21456	19238
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				NORMAL	NORMAL	ATTENTION
WEAR	Iron	ppm	ASTM D5185m		16	19	22
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m		4	5	7
	Lead	ppm	ASTM D5185m		1	0	0
	Copper	ppm	ASTM D5185m		<1	1	1
	Tin	ppm	ASTM D5185m	>15	0	0	0
	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		8	6	6
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.	Potassium	ppm	ASTM D5185m	>20	13	14	15
	Fuel		WC Method		<1.0	<1.0	1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.4	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624		10.6	11.2	10.9
	Sulfation	Abs/.1mm	*ASTM D7415		26.3	22.0	23.5
	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	visuai	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	4	3	3
	Boron	ppm	ASTM D5185m		51	7	38
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	-	15	64	62
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	217	922	438
	Calcium	ppm	ASTM D5185m		2157	1221	1790
	Phosphorus	ppm	ASTM D5185m		1097	1068	1007
	Zinc	ppm	ASTM D5185m	1350	1349	1291	1247
	Sulfur	ppm	ASTM D5185m	4250	3473	3664	3820
	Oxidation	Abs/.1mm	*ASTM D7414		22.7	19.8	21.7
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	4.8	6.0	5.7
	Visc @ 100°C	cSt	ASTM D445		14.6	13.9	11.8













Certificate L2367

Laboratory Sample No.

Lab Number : 06100679 Unique Number: 10898909 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0082952

Received : 26 Feb 2024 : 27 Feb 2024 **Tested** Diagnosed

: 27 Feb 2024 - Wes Davis

10895 171ST AVE NW ELK RIVER, MN US 55330 Contact: JAY LEFEBVRE

LEFEBVRE AND SONS

jay.lefebvre@leftruck.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)

F: