WEAR CONTAMINATION **FLUID CONDITION**

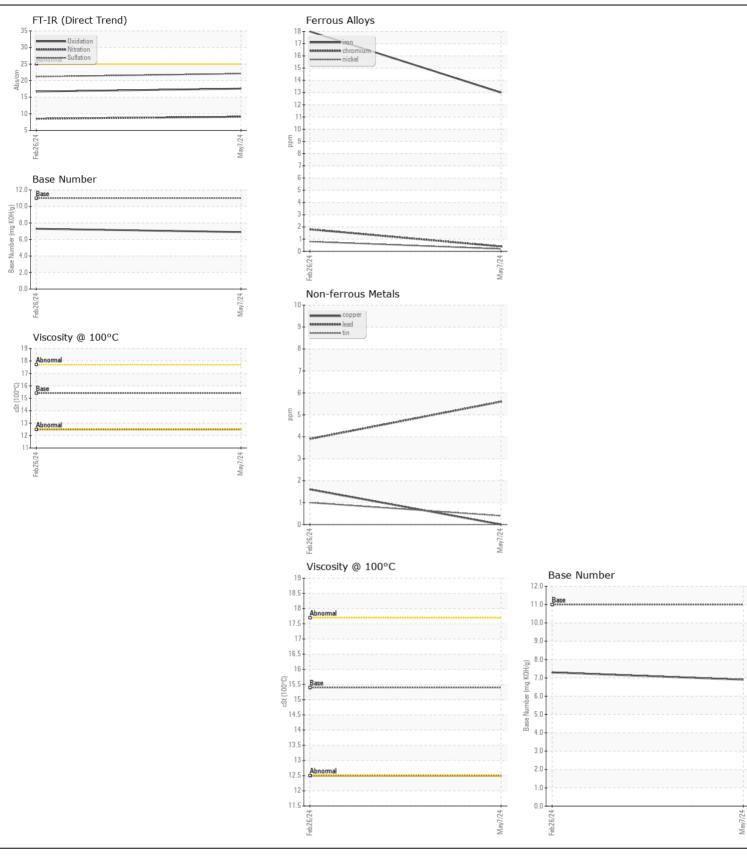
NORMAL NORMAL NORMAL

Machine Id

KENWORTH 4169

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
1233MM2NDATION	Sample Number		Client Info		WC0901418	WC0901406	
Resample at the next service interval to monitor.	Sample Date		Client Info		07 May 2024	26 Feb 2024	
	Machine Age	mls	Client Info		308114	292504	
	Oil Age	mls	Client Info		15610	14881	
	Filter Age	mls	Client Info		15610	14881	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
VEAR	Iron	ppm	ASTM D5185m	>100	13	18	
	Chromium	ppm	ASTM D5185m	>20	<1	2	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	<1	<1	
	Titanium	ppm	ASTM D5185m		1	2	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>20	3	4	
	Lead	ppm	ASTM D5185m	>40	6	4	
	Copper	ppm	ASTM D5185m	>330	0	2	
	Tin	ppm	ASTM D5185m	>15	<1	1	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	10	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	3	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.4	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	9.1	8.5	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	21.2	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		1	3	
	Boron	ppm	ASTM D5185m	13	9	12	
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	57	82	110	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m	825	503	633	
	Calcium	ppm	ASTM D5185m		1956	2297	
	Phosphorus	ppm	ASTM D5185m	933	1147	1343	
	Zinc	ppm	ASTM D5185m		1361	1742	
	Sulfur	ppm	ASTM D5185m		3812	5036	
	Oxidation	Abs/.1mm	*ASTM D7414		17.6	16.7	
	Base Number (BN)		ASTM D2896		6.9	7.3	
	()	0 - 3	ASTM D445		12.5	12.5	







Certificate L2367

Laboratory Sample No.

Lab Number : 06175155 Unique Number : 11021208 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0901418 Received : 10 May 2024 **Tested** : 11 May 2024

Diagnosed : 11 May 2024 - Wes Davis

OMNISOURCE SE 1426 WEST MAIN SHOP

KERNERSVILLE, NC US 27284

Contact: JEFF HENDRIX

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)

T:

F: