

**WEAR CONTAMINATION FLUID CONDITION** 

**NORMAL NORMAL** NORMAL

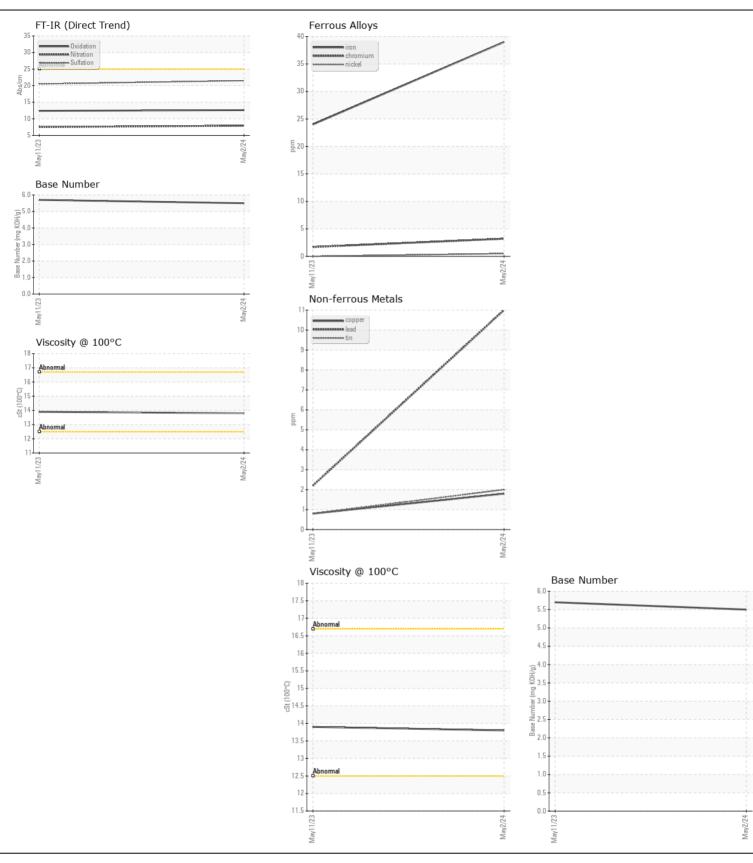
[Z20819]

## **KENWORTH NLC783 - TACOMA TRANSPORT**

Diesel Engine

**VALVOLINE (48 LTR)** 

VALVOLINE (40 LIN)					.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC06189893	WC05894207	
	Sample Date		Client Info		02 May 2024	11 May 2023	
	Machine Age	kms	Client Info		354458	236945	
	Oil Age	kms	Client Info		44962	31063	
	Filter Age	kms	Client Info		44962	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR  All component wear rates are normal.	Iron	ppm	ASTM D5185m	>90	39	24	
	Chromium	ppm	ASTM D5185m	>20	3	2	
	Nickel	ppm	ASTM D5185m	>2	<1	0	
	Titanium	ppm	ASTM D5185m	>2	<1	0	
	Silver	ppm	ASTM D5185m		<1	0	
	Aluminum	ppm	ASTM D5185m		3	3	
	Lead	ppm	ASTM D5185m		11	2	
	Copper	ppm	ASTM D5185m		2	<1	
	Tin	ppm	ASTM D5185m		2	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	4	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	2	
	Fuel		WC Method	>3.0	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>6	0.7	0.7	
	Nitration	Abs/cm	*ASTM D7624	>20	7.9	7.5	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	20.5	
	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	
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	
THE CONDITION	- "						
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	2	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		5	0	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		6	<1	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		49	19	
	Calcium	ppm	ASTM D5185m		3503	2508	
	Phosphorus	ppm	ASTM D5185m		1288	984	
	Zinc	ppm	ASTM D5185m		1556	1181	
	Sulfur	ppm	ASTM D5185m		5092	4556	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	12.6	12.4	
	Base Number (BN)		ASTM D2896		5.5	5.7	
	Visc @ 100°C	cSt	ASTM D445		13.8	13.9	







Certificate L2367

Laboratory Sample No.

Lab Number : 06189893 Unique Number : 11046645 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC06189893 Received : 23 May 2024 **Tested** : 25 May 2024

Diagnosed : 25 May 2024 - Wes Davis

62B MILTON RD OTUMOETAI, ZZ NZ 3110 Contact: SCOTT NICHOLLS

**GLOBAL OIL NZ** 

scott@astrea.co.nz T: (642)145-5680

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: x: