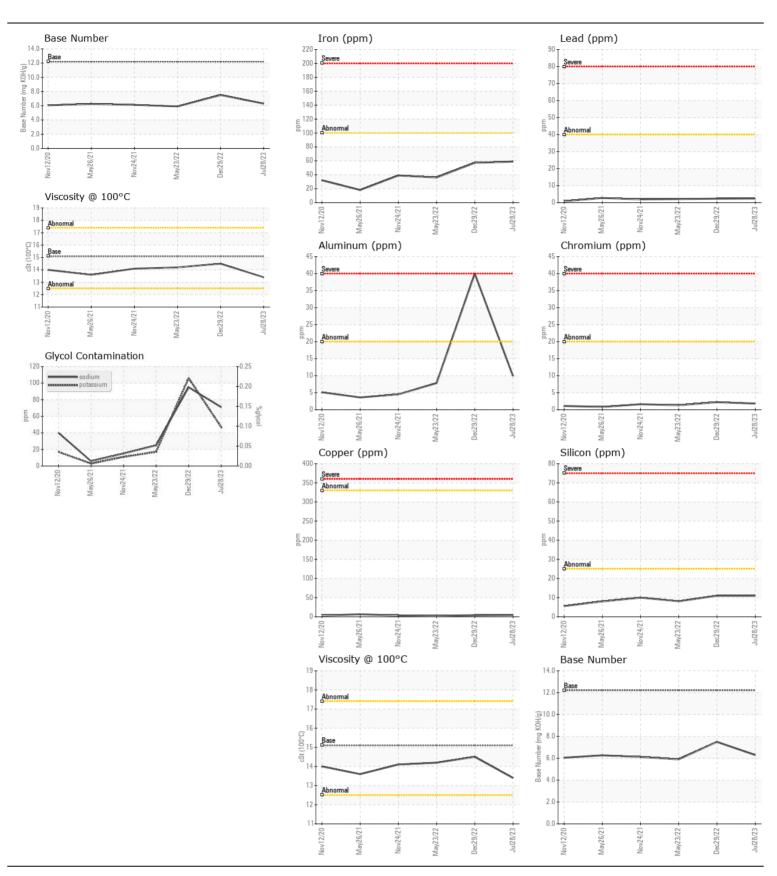
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ATTENTION ATTENTION

KENWORTH 780

Component Diesel Engine

CHEVRON DELO 400 MULTIGRADE 15W40 (28	3 QTS)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0778887	,	WC0707324
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		28 Jul 2023	29 Dec 2022	23 May 2022
	Machine Age	hrs	Client Info		2443	1828	1272
	Oil Age	hrs	Client Info		450	0	450
	Filter Age	hrs	Client Info		450	0	450
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	\100	59	57	36
WLAN	Chromium	ppm	ASTM D5185m		2	2	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		1	0	<1
	Titanium	ppm	ASTM D5185m	7	- <1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m		10	<u>4</u> 0	8
	Lead	ppm	ASTM D5185m		2	2	2
	Copper	ppm	ASTM D5185m		5	4	3
	Tin	ppm	ASTM D5185m		1	<1	1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION			40714 05405				
	Silicon	ppm	ASTM D5185m		11	11	8
Sodium and/or potassium levels remain high. Test for glycol is negative.	Potassium	ppm	ASTM D5185m		4 7	<u>106</u>	17
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water	0/	WC Method *ASTM D2982	>0.2	NEG	NEG	NEG
	Glycol	%	*ASTM D7844	. 0	NEG	NEG	NEG
	Soot % Nitration	% Abs/cm	*ASTM D7624	>20	1.2 13.2	1.2 14.7	0.8
	Sulfation	Abs/.1mm	*ASTM D7024		25.5	26.8	24.7
	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	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		▲ 71	<u>4</u> 95	25
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		23	29	73
oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	1	0
	Molybdenum	ppm	ASTM D5185m		12	22	35
	Manganese	ppm	ASTM D5185m		2	1	<1
	Magnesium	ppm	ASTM D5185m		742	728	717
	Calcium Phosphorus	ppm	ASTM D5185m	1260	1329	1401	1484
		ppm	ASTM D5185m		672	690	692 837
	Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1400	818 4417	864 3396	2797
	Oxidation	Abs/.1mm	*ASTM D7414	>25	21.0	21.4	20.3
	Base Number (BN)		ASTM D2896		6.29	7.50	5.90
		my Norry					
	Visc @ 100°C	cSt	ASTM D445	15 1	13.4	14.5	14.2





Certificate L2367

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

: WC0778887 : 06055056 : 10821005

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 08 Jan 2024 Recieved

Diagnosed : 10 Jan 2024 : Jonathan Hester Diagnostician

Test Package : MOB 2 (Additional Tests: Glycol) 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.

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)