



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
KENWORTH 762
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (18 QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0844110	WC0844127	WC0778899
Sample Date		Client Info		28 May 2024	22 Jan 2024	11 Jul 2023
Machine Age	hrs	Client Info		11115	10556	9857
Oil Age	hrs	Client Info		450	450	500
Filter Age	hrs	Client Info		450	450	500
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	27	41	29
Chromium	ppm	ASTM D5185m	>20	<1	2	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	13	▲ 42	11
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	3	5	2
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

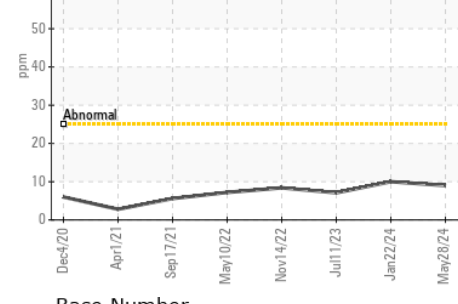
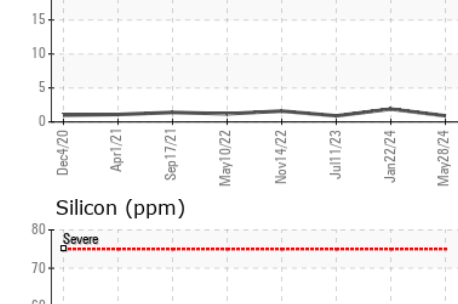
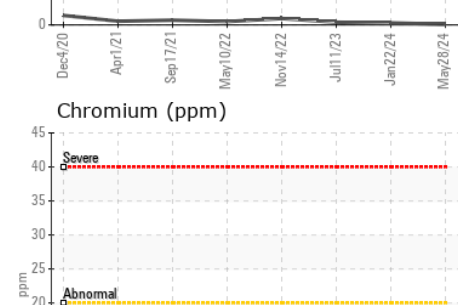
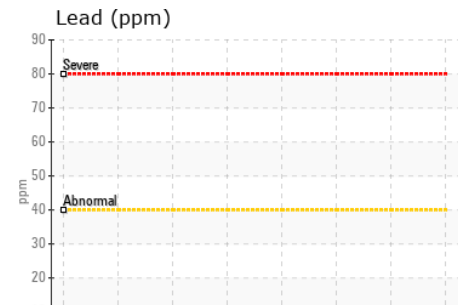
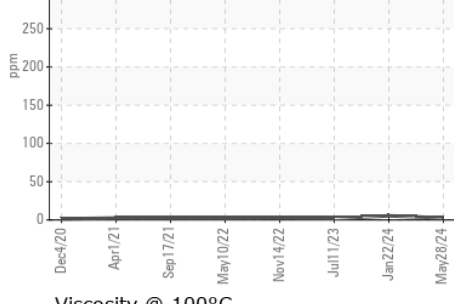
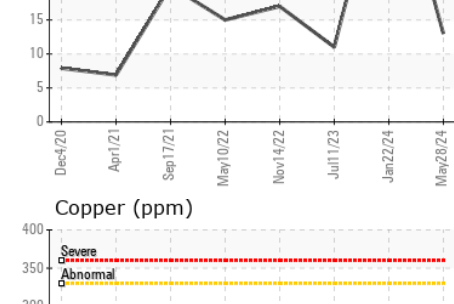
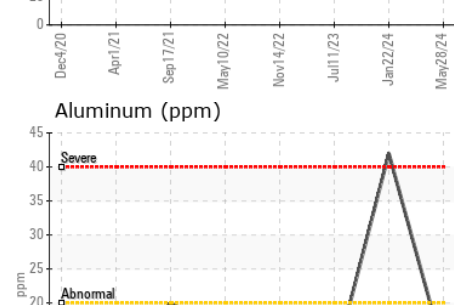
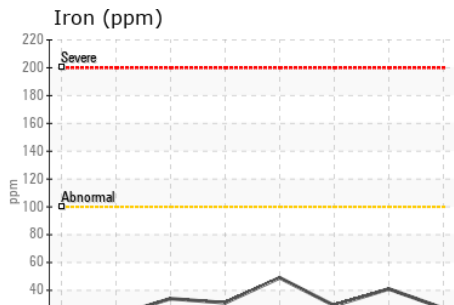
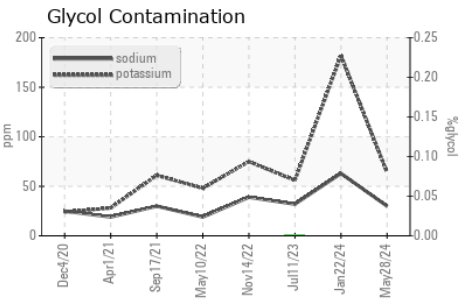
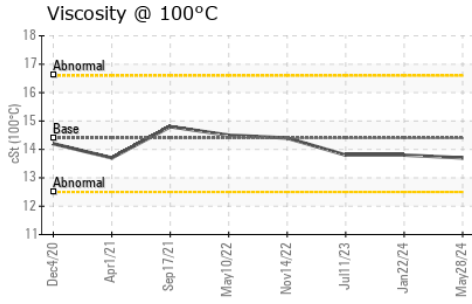
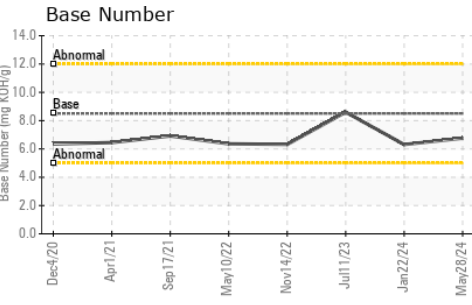
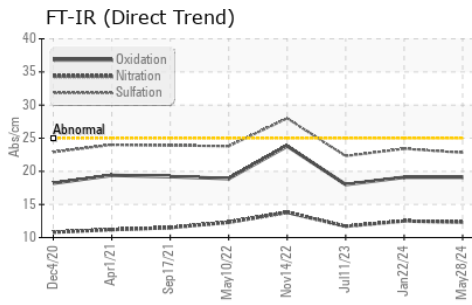
Sodium and/or potassium levels are high. Test for glycol is negative.

Silicon	ppm	ASTM D5185m	>25	9	10	7
Potassium	ppm	ASTM D5185m	>20	▲ 64	▲ 182	▲ 56
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	0.0
Soot %	%	*ASTM D7844	>3	0.7	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	12.3	12.5	11.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8	23.4	22.3
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

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>158	30	▲ 63	32
Boron	ppm	ASTM D5185m	250	19	20	21
Barium	ppm	ASTM D5185m	10	0	0	<1
Molybdenum	ppm	ASTM D5185m	100	7	14	9
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	450	762	821	772
Calcium	ppm	ASTM D5185m	3000	1358	1518	1490
Phosphorus	ppm	ASTM D5185m	1150	759	858	772
Zinc	ppm	ASTM D5185m	1350	851	968	924
Sulfur	ppm	ASTM D5185m	4250	3523	3554	3617
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	19.1	18.0
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.76	6.31	8.60
Visc @ 100°C	cSt	ASTM D445	14.4	13.7	13.8	13.8



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0844110 **Received** : 17 Jun 2024
Lab Number : 06211955 **Tested** : 19 Jun 2024
Unique Number : 11084819 **Diagnosed** : 19 Jun 2024 - Don Baldrige
Test Package : MOB 2 (Additional Tests: Glycol)

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Certificate L2367
 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)