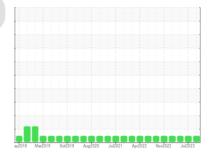


## **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id

# **KENWORTH T-800 194423**

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (12 GAL)

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

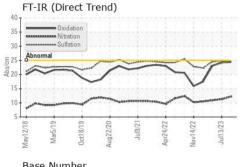
### **Fluid Condition**

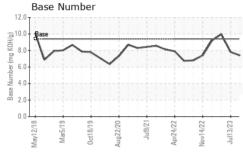
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

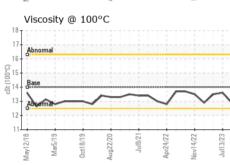
Sample Number   Client Info   RW0004366   RW0004468   RW000408   Rample Date   Client Info   21 Nov 2023   13 Jul 2023   03 May 202   10 Nov 2023   13 Jul 2023   03 May 202   10 Nov 2023   13 Jul 2023   03 May 202   10 Nov 2023   13 Jul 2023   03 May 202   10 Nov 2023   13 Jul 2023   03 May 202   10 Nov 2023   12 Nov 2023   13 Jul 2023   03 May 202   10 Nov 2023   12 Nov 2023	(L)		ayzuro mar.	zula uctzula Augzuzu	JUZUZI APRZUZZ NOVZUZZ	JUIZUZ3	
Client Info   21 Nov 2023   13 Jul 2023   03 May 2025	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age   mls   Client Info   10000   12300   10336	Sample Number		Client Info		RW0004366	RW0004468	RW0004039
Oil Age         mIs         Client Info         10000         12300         10336           Oil Changed         Client Info         Changed         NEG	Sample Date		Client Info		21 Nov 2023	13 Jul 2023	03 May 2023
Client Info   Changed   Changed   NORMAL   NOR	Machine Age	mls	Client Info		278117	268127	255800
NORMAL   NORMAL   NORMAL   NORMAL   CONTAMINATION   method   limit/base   current   history1   history1   history1   water   WC Method   >3.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0   <1.	Oil Age	mls	Client Info		10000	12300	10336
CONTAMINATION	Oil Changed		Client Info		Changed	Changed	Changed
Fuel	Sample Status				NORMAL	NORMAL	NORMAL
Water Glycol         WC Method PC MEG         NEG NEG         NEG NEG         NEG NEG           WEAR METALS         method Ilmit/base         current current         history1         history1         history1           Iron         ppm         ASTM D5185m         >90         33         14         12           Chromium         ppm         ASTM D5185m         >20         <1         <1         <1           Nickel         ppm         ASTM D5185m         >2         0         <1         0           Silver         ppm         ASTM D5185m         >2         0         <1         0           Aluminum         ppm         ASTM D5185m         >2         0         <1         0           Aluminum         ppm         ASTM D5185m         >2         0         <1         0           Aluminum         ppm         ASTM D5185m         >40         3         2         <1         <1           Lead         ppm         ASTM D5185m         >40         3         2         <1         <1           Copper         ppm         ASTM D5185m         0         0         <1         <1         <1           Vanadium         ppm         ASTM D5185m </td <td>CONTAMINATIO</td> <td>N</td> <td>method</td> <td>limit/base</td> <th>current</th> <td>history1</td> <td>history2</td>	CONTAMINATIO	N	method	limit/base	current	history1	history2
WEAR METALS	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
WEAR METALS	Water		WC Method	>0.2	NEG	NEG	NEG
Iron	Glycol		WC Method		NEG	NEG	NEG
Chromium         ppm         ASTM D5185m         >20         <1         <1         <1           Nickel         ppm         ASTM D5185m         >2         0         <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>90	33	14	12
Titanium         ppm         ASTM D5185m         >2         0         0         0           Silver         ppm         ASTM D5185m         >2         0         <1	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Silver	Nickel	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	Titanium	ppm	ASTM D5185m	>2	0	0	0
Lead	Silver	ppm	ASTM D5185m	>2	0	<1	0
Copper         ppm         ASTM D5185m         >330         0         <1         <1           Tin         ppm         ASTM D5185m         >15         0         <1	Aluminum	ppm	ASTM D5185m	>20	4	2	1
Tin	Lead	ppm	ASTM D5185m	>40	3	2	<1
Vanadium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185m         0         29         35         37           Barium         ppm         ASTM D5185m         0         0         0         2           Molybdenum         ppm         ASTM D5185m         0         46         47         47           Manganese         ppm         ASTM D5185m         0         571         543         551           Calcium         ppm         ASTM D5185m         1956         1845         1725           Phosphorus         ppm         ASTM D5185m         1030         1010         1001           Sulfur         ppm         ASTM D5185m         3071         2776         2887           CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >25         5         6         5	Copper	ppm	ASTM D5185m	>330	0	<1	<1
Cadmium         ppm         ASTM D5185m         0         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         29         35         37           Barium         ppm         ASTM D5185m         0         0         0         2           Molybdenum         ppm         ASTM D5185m         0         46         47         47           Manganese         ppm         ASTM D5185m         <1	Tin	ppm	ASTM D5185m	>15	0	<1	<1
ADDITIVES	Vanadium	ppm	ASTM D5185m		0	0	0
Boron   ppm   ASTM D5185m   0   29   35   37	Cadmium	ppm	ASTM D5185m		0	0	0
Barium         ppm         ASTM D5185m         0         0         0         2           Molybdenum         ppm         ASTM D5185m         0         46         47         47           Manganese         ppm         ASTM D5185m          <1         <1         <1           Magnesium         ppm         ASTM D5185m         0         571         543         551           Calcium         ppm         ASTM D5185m         1956         1845         1725           Phosphorus         ppm         ASTM D5185m         845         807         802           Zinc         ppm         ASTM D5185m         1030         1010         1001           Sulfur         ppm         ASTM D5185m         3071         2776         2887           CONTAMINANTS         method         limit/base         current         history1         history           Silicon         ppm         ASTM D5185m         >25         5         6         5           Sodium         ppm         ASTM D5185m         >20         5         4         3           INFRA-RED         method         limit/base         current         history1         history	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         0         46         47         47           Manganese         ppm         ASTM D5185m         <1         <1         <1           Magnesium         ppm         ASTM D5185m         0         571         543         551           Calcium         ppm         ASTM D5185m         1956         1845         1725           Phosphorus         ppm         ASTM D5185m         845         807         802           Zinc         ppm         ASTM D5185m         1030         1010         1001           Sulfur         ppm         ASTM D5185m         3071         2776         2887           CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >25         5         6         5           Sodium         ppm         ASTM D5185m         >20         5         4         3           INFRA-RED         method         limit/base         current         history1         history           Soot %         %         *ASTM D7844         >6         0.9         0.8         0.7           Nitratio	Boron	ppm	ASTM D5185m	0	29	35	37
Manganese         ppm         ASTM D5185m         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1 <td>Barium</td> <td>ppm</td> <td>ASTM D5185m</td> <td>0</td> <th>0</th> <td>0</td> <td>2</td>	Barium	ppm	ASTM D5185m	0	0	0	2
Magnesium         ppm         ASTM D5185m         0         571         543         551           Calcium         ppm         ASTM D5185m         1956         1845         1725           Phosphorus         ppm         ASTM D5185m         845         807         802           Zinc         ppm         ASTM D5185m         1030         1010         1001           Sulfur         ppm         ASTM D5185m         3071         2776         2887           CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >25         5         6         5           Sodium         ppm         ASTM D5185m         3         0         <1         4           Potassium         ppm         ASTM D5185m         >20         5         4         3           INFRA-RED         method         limit/base         current         history1         history           Soot %         %         *ASTM D7844         >6         0.9         0.8         0.7           Nitration         Abs/.1mm         *ASTM D7624         >20         12.2         11.3         10.9	Molybdenum	ppm	ASTM D5185m	0	46	47	47
Calcium         ppm         ASTM D5185m         1956         1845         1725           Phosphorus         ppm         ASTM D5185m         845         807         802           Zinc         ppm         ASTM D5185m         1030         1010         1001           Sulfur         ppm         ASTM D5185m         3071         2776         2887           CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >25         5         6         5           Sodium         ppm         ASTM D5185m         3         0         <1	Manganese	ppm	ASTM D5185m		<1	<1	<1
Phosphorus         ppm         ASTM D5185m         845         807         802           Zinc         ppm         ASTM D5185m         1030         1010         1001           Sulfur         ppm         ASTM D5185m         3071         2776         2887           CONTAMINANTS         method         limit/base         current         history1         history           Silicon         ppm         ASTM D5185m         >25         5         6         5           Sodium         ppm         ASTM D5185m         3         0         <1	Magnesium	ppm	ASTM D5185m	0	571	543	551
Zinc         ppm         ASTM D5185m         1030         1010         1001           Sulfur         ppm         ASTM D5185m         3071         2776         2887           CONTAMINANTS         method         limit/base         current         history           Silicon         ppm         ASTM D5185m         >25         5         6         5           Sodium         ppm         ASTM D5185m         3         0         <1	Calcium	ppm	ASTM D5185m		1956	1845	1725
Sulfur         ppm         ASTM D5185m         3071         2776         2887           CONTAMINANTS         method         limit/base         current         history1         history           Silicon         ppm         ASTM D5185m         >25         5         6         5           Sodium         ppm         ASTM D5185m         3         0         <1	Phosphorus	ppm	ASTM D5185m		845	807	802
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         5         6         5           Sodium         ppm         ASTM D5185m         3         0         <1	Zinc	ppm	ASTM D5185m		1030	1010	1001
Silicon         ppm         ASTM D5185m         >25         5         6         5           Sodium         ppm         ASTM D5185m         3         0         <1           Potassium         ppm         ASTM D5185m         >20         5         4         3           INFRA-RED         method         limit/base         current         history1         history           Soot %         %         *ASTM D7844         >6         0.9         0.8         0.7           Nitration         Abs/cm         *ASTM D7624         >20         12.2         11.3         10.9           Sulfation         Abs/.1mm         *ASTM D7415         >30         24.9         24.9         24.5           FLUID DEGRADATION         method         limit/base         current         history1         history           Oxidation         Abs/.1mm         *ASTM D7414         >25         24.4         24.2         23.1	Sulfur	ppm	ASTM D5185m		3071	2776	2887
Sodium         ppm         ASTM D5185m         3         0         <1           Potassium         ppm         ASTM D5185m         >20         5         4         3           INFRA-RED         method         limit/base         current         history1         history           Soot %         %         *ASTM D7844         >6         0.9         0.8         0.7           Nitration         Abs/cm         *ASTM D7624         >20         12.2         11.3         10.9           Sulfation         Abs/.1mm         *ASTM D7415         >30         24.9         24.9         24.5           FLUID DEGRADATION         method         limit/base         current         history1         history           Oxidation         Abs/.1mm         *ASTM D7414         >25         24.4         24.2         23.1	CONTAMINANT	S	method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         5         4         3           INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >6         0.9         0.8         0.7           Nitration         Abs/cm         *ASTM D7624         >20         12.2         11.3         10.9           Sulfation         Abs/.1mm         *ASTM D7415         >30         24.9         24.9         24.5           FLUID DEGRADATION         method         limit/base         current         history1         history1           Oxidation         Abs/.1mm         *ASTM D7414         >25         24.4         24.2         23.1	Silicon	ppm	ASTM D5185m	>25	5	6	5
INFRA-RED	Sodium	ppm	ASTM D5185m		3	0	<1
Soot %         %         *ASTM D7844 >6         0.9         0.8         0.7           Nitration         Abs/cm         *ASTM D7624 >20         12.2         11.3         10.9           Sulfation         Abs/.1mm         *ASTM D7415 >30         24.9         24.9         24.5           FLUID DEGRADATION         method         limit/base         current         history1         history           Oxidation         Abs/.1mm         *ASTM D7414 >25         24.4         24.2         23.1	Potassium	ppm	ASTM D5185m	>20	5	4	3
Nitration         Abs/cm         *ASTM D7624         >20         12.2         11.3         10.9           Sulfation         Abs/.1mm         *ASTM D7624         >30         24.9         24.9         24.5           FLUID DEGRADATION method limit/base current         history1         history           Oxidation         Abs/.1mm         *ASTM D7414         >25         24.4         24.2         23.1	INFRA-RED		method	limit/base	current	history1	history2
Sulfation         Abs/.1mm         *ASTM D7415         >30         24.9         24.9         24.5           FLUID DEGRADATION         method         limit/base         current         history1         history           Oxidation         Abs/.1mm         *ASTM D7414         >25         24.4         24.2         23.1	Soot %	%	*ASTM D7844	>6	0.9	0.8	0.7
FLUID DEGRADATION method limit/base current history1 history  Oxidation Abs/.1mm *ASTM D7414 >25 24.4 24.2 23.1	Nitration	Abs/cm	*ASTM D7624	>20	12.2	11.3	10.9
Oxidation	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.9	24.9	24.5
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 9.4 <b>7.40</b> 7.82 9.98	Oxidation	Abs/.1mm	*ASTM D7414	>25	24.4	24.2	23.1
	Base Number (BN)	mg KOH/g	ASTM D2896	9.4	7.40	7.82	9.98



### **OIL ANALYSIS REPORT**





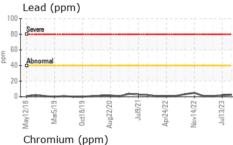


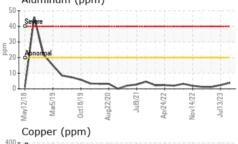
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

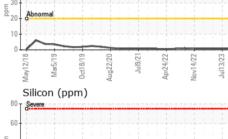
LLUID PHOPER	THES	method			riistory i	History2
Visc @ 100°C	cSt	ASTM D445	14	12.9	13.6	13.5

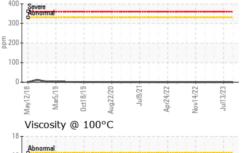
Iron	(ppr	n)					
50 T :	1-1-1						
00 Severe						1 1	
50							
00 - Abnor	mal						*******
50							
		-	-				
9	6,	6	20	21-	22	22	23
May12/18	Mar5/19	Oct18/19	Aug22/	/GInf	Apr24/22	Nov14/2	Jul13/23
N N	2	ŏ	An		Ap	2	7
Alur	ninur	n (ppi	m)				
50 T							
40 Severe		1 1 1	1 1 1	1 1			
10 2 1							

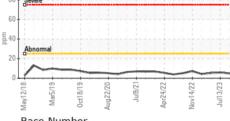
GRAPHS

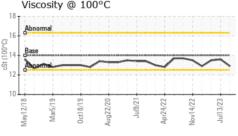


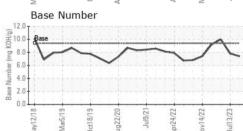
















Certificate 12367

Laboratory Sample No.

: RW0004366 Lab Number : 06160992 Unique Number : 10996415 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Apr 2024 **Tested** : 26 Apr 2024

Diagnosed

: 26 Apr 2024 - Wes Davis

205 S CEDAR ST IMLAY CITY, MI US 48444 Contact: DENNIS ONDRAJKA homerconcrete@aol.com

**HOMER CONCRETE** 

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: (810)724-0733

Report Id: HOMIML [WUSCAR] 06160992 (Generated: 04/26/2024 14:43:34) Rev: 1

Contact/Location: DENNIS ONDRAJKA - HOMIML

T: (810)724-3905