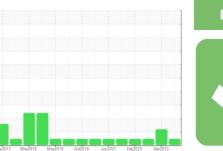


# **OIL ANALYSIS REPORT**

## Sample Rating Trend









Machine Id TEREX FD6000 582 (S/N 008446)

Component
Rear Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (10 GAL)

### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the oil

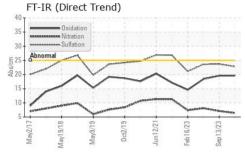
## **Fluid Condition**

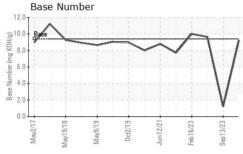
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

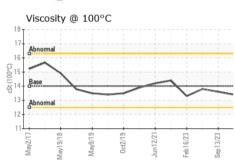
Sample Date   Client Info   25400   0   400	`						
Sample Date   Client Info   25400   0   400	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age	Sample Number		Client Info		RW0004902	RW0002955	RW0004472
Dit Age	Sample Date		Client Info		18 Dec 2023	13 Sep 2023	06 Jun 2023
Client Info   Changed   Changed   Changed   NORMAL   ABNORMAL   ABNORMAL   NORMAL   ABNORMAL   NORMAL   NORMAL   NORMAL   ABNORMAL   NORMAL   NOR	Machine Age	hrs	Client Info		25400	-	400
CONTAMINATION   method   minit/base   current   history1   history2   history2   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   <1.0   <1.0   <1.0   <1.0   <1.0   <1.0	Oil Age	hrs	Client Info		410	400	400
CONTAMINATION   method   imit/base   current   history1   history2	Oil Changed		Client Info			Changed	Changed
Victor   V	Sample Status				NORMAL	ABNORMAL	NORMAL
Water   WC Method   WC Method   NEG   Ne	CONTAMINATION	V	method	limit/base	current	history1	history2
NEG   Neg	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
WEAR METALS         method         limit/base         current         history1         history2           fon         ppm         ASTM D5185m         >165         6         8         12           chromium         ppm         ASTM D5185m         >5         0         <1	Water		WC Method	>0.2	NEG	NEG	NEG
Description	Glycol		WC Method		NEG	NEG	NEG
Stromium	WEAR METALS		method	limit/base	current	history1	history2
Sickel   ppm	Iron	ppm	ASTM D5185m	>165	6	8	12
Strain   S	Chromium	ppm	ASTM D5185m	>5	0	<1	<1
Silver	Nickel	ppm	ASTM D5185m	>4	0	<1	<1
ASTM D5185m   >20	Titanium	ppm	ASTM D5185m	>2	0	0	0
Part	Silver	ppm	ASTM D5185m	>2	0	<1	
Description	Aluminum	ppm	ASTM D5185m	>20	1	1	2
Academium	Lead	ppm	ASTM D5185m	>150	<1	<1	1
Anadium	Copper	ppm	ASTM D5185m	>90	0	<1	<1
Addition         ppm         ASTM D5185m         0         <1         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         61         50         51           Barium         ppm         ASTM D5185m         0         0         4         0           Molybdenum         ppm         ASTM D5185m         0         43         44         45           Magnesium         ppm         ASTM D5185m         <1	Tin	ppm	ASTM D5185m	>5	0	<1	<1
ADDITIVES	Vanadium	ppm	ASTM D5185m		0	0	0
Soron   ppm   ASTM D5185m   0   0   0   4   0   0   0   0   0   0	Cadmium	ppm	ASTM D5185m		0	<1	0
Agrium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         0         43         44         45           Manganese         ppm         ASTM D5185m         0         574         483         583           Magnesium         ppm         ASTM D5185m         0         574         483         583           Malcium         ppm         ASTM D5185m         1973         1614         1637           Phosphorus         ppm         ASTM D5185m         888         743         807           Vinc         ppm         ASTM D5185m         1052         875         968           Bulfur         ppm         ASTM D5185m         3371         2632         2729           CONTAMINANTS         method         limit/base         current         history1         history2           Goldium         ppm         ASTM D5185m         >35         5         5         4           Goldium         ppm         ASTM D5185m         20         <1         <1         2           INFRA-RED         method         limit/base         current         history1         history2           Goot %         *ASTM D7844         >7.5         1         1.5         1.9           Bulf	Boron	ppm	ASTM D5185m	0		50	
Manganese         ppm         ASTM D5185m         <1         <1         <1           Magnesium         ppm         ASTM D5185m         0         574         483         583           Jackium         ppm         ASTM D5185m         1973         1614         1637           Phosphorus         ppm         ASTM D5185m         888         743         807           Jinc         ppm         ASTM D5185m         1052         875         968           Julfur         ppm         ASTM D5185m         3371         2632         2729           CONTAMINANTS         method         limit/base         current         history1         history2           Goldium         ppm         ASTM D5185m         >35         5         5         4           Joiding         ppm         ASTM D5185m         20         <1         <1         2           INFRA-RED         method         limit/base         current         history1         history2           Julfation         Abs/cm         *ASTM D7624         >20         6.4         7.1         8.1           Julfation         Abs/.1mm         *ASTM D7415         >30         22.8         23.7         23.6 <tr< td=""><td>Barium</td><td>ppm</td><td>ASTM D5185m</td><td>0</td><th>0</th><td>4</td><td>0</td></tr<>	Barium	ppm	ASTM D5185m	0	0	4	0
Magnesium         ppm         ASTM D5185m         0         574         483         583           Calcium         ppm         ASTM D5185m         1973         1614         1637           Phosphorus         ppm         ASTM D5185m         888         743         807           Cinc         ppm         ASTM D5185m         1052         875         968           Julfur         ppm         ASTM D5185m         3371         2632         2729           CONTAMINANTS         method         limit/base         current         history1         history2           Goldium         ppm         ASTM D5185m         >35         5         5         4           Jodium         ppm         ASTM D5185m         >20         <1         <1         2           INFRA-RED         method         limit/base         current         history1         history2           Goot %         *ASTM D7624         >20         6.4         7.1         8.1           Julfation         Abs/.1mm         *ASTM D7415         >30         22.8         23.7         23.6           FLUID DEGRADATION         method         limit/base         current         history1         history2 <tr< td=""><td>Molybdenum</td><td>ppm</td><td>ASTM D5185m</td><td>0</td><th>43</th><td>44</td><td></td></tr<>	Molybdenum	ppm	ASTM D5185m	0	43	44	
Calcium         ppm         ASTM D5185m         1973         1614         1637           Phosphorus         ppm         ASTM D5185m         888         743         807           Vinc         ppm         ASTM D5185m         1052         875         968           Sulfur         ppm         ASTM D5185m         3371         2632         2729           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >35         5         5         4           Sodium         ppm         ASTM D5185m         2         0         0         0           Potassium         ppm         ASTM D5185m         >20         <1	Manganese	ppm	ASTM D5185m		<1	<1	
Phosphorus         ppm         ASTM D5185m         888         743         807           Vinc         ppm         ASTM D5185m         1052         875         968           Sulfur         ppm         ASTM D5185m         3371         2632         2729           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >35         5         5         4           Sodium         ppm         ASTM D5185m         20         <1         <1         2           INFRA-RED         method         limit/base         current         history1         history2           Soot %         *ASTM D7644         >7.5         1         1.5         1.9           Ilitration         Abs/cm         *ASTM D7624         >20         6.4         7.1         8.1           Sulfation         Abs/.1mm         *ASTM D7415         >30         22.8         23.7         23.6           FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         19.6         19.6	Magnesium	ppm	ASTM D5185m	0			
Time	Calcium	ppm	ASTM D5185m			1614	1637
Sulfur         ppm         ASTM D5185m         3371         2632         2729           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >35         5         5         4           Sodium         ppm         ASTM D5185m         2         0         0           Potassium         ppm         ASTM D5185m         >20         <1         <1         2           INFRA-RED         method         limit/base         current         history1         history2           Biotot %         "ASTM D7844         >7.5         1         1.5         1.9           Silitration         Abs/cm         "ASTM D7624         >20         6.4         7.1         8.1           Sulfation         Abs/.1mm         "ASTM D7415         >30         22.8         23.7         23.6           FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         "ASTM D7414         >25         19.6         19.6         18.4	Phosphorus	ppm	ASTM D5185m				807
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >35         5         5         4           Sodium         ppm         ASTM D5185m         2         0         0           Potassium         ppm         ASTM D5185m         >20         <1	Zinc	ppm	ASTM D5185m			875	968
Solition   ppm   ASTM D5185m   >35   5   5   4	Sulfur		ASTM D5185m		3371		
Sodium         ppm         ASTM D5185m         2         0         0           Potassium         ppm         ASTM D5185m         >20         <1         <1         2           INFRA-RED         method         limit/base         current         history1         history2           Bitration         Abs/cm         *ASTM D7844         >7.5         1         1.5         1.9           Bulfation         Abs/.1mm         *ASTM D7624         >20         6.4         7.1         8.1           Bulfation         Abs/.1mm         *ASTM D7415         >30         22.8         23.7         23.6           FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         19.6         19.6         18.4	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         <1         <1         2           INFRA-RED         method         limit/base         current         history1         history2           Boot %         *ASTM D7844         >7.5         1         1.5         1.9           Bulitration         Abs/cm         *ASTM D7624         >20         6.4         7.1         8.1           Bulfation         Abs/.1mm         *ASTM D7415         >30         22.8         23.7         23.6           FLUID DEGRADATION         method         limit/base         current         history1         history2           Dxidation         Abs/.1mm         *ASTM D7414         >25         19.6         19.6         18.4	Silicon	ppm		>35			
INFRA-RED	Sodium	ppm	ASTM D5185m			0	
Soot %         *ASTM D7844         >7.5         1         1.5         1.9           Ilitration         Abs/cm         *ASTM D7624         >20         6.4         7.1         8.1           Sulfation         Abs/.1mm         *ASTM D7415         >30         22.8         23.7         23.6           FLUID DEGRADATION         method         limit/base         current         history1         history2           oxidation         Abs/.1mm         *ASTM D7414         >25         19.6         19.6         18.4	Potassium	ppm	ASTM D5185m	>20	<1	<1	2
Abs/cm         *ASTM D7624         >20         6.4         7.1         8.1           Sulfation         Abs/.1mm         *ASTM D7415         >30         22.8         23.7         23.6           FLUID DEGRADATION         method         limit/base         current         history1         history2           oxidation         Abs/.1mm         *ASTM D7414         >25         19.6         19.6         18.4	INFRA-RED		method	limit/base	current	history1	history2
Sulfation         Abs/.1mm         *ASTM D7415         >30         22.8         23.7         23.6           FLUID DEGRADATION         method         limit/base         current         history1         history2           oxidation         Abs/.1mm         *ASTM D7414         >25         19.6         19.6         18.4	Soot %	%	*ASTM D7844	>7.5	1	1.5	1.9
FLUID DEGRADATION method limit/base current history1 history2  Oxidation Abs/.1mm *ASTM D7414 >25 19.6 19.6 18.4	Nitration	Abs/cm	*ASTM D7624	>20	6.4	7.1	8.1
Oxidation Abs/.1mm *ASTM D7414 >25 <b>19.6</b> 19.6 18.4	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8	23.7	23.6
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Sase Number (BN) mg KOH/g ASTM D2896 9.4 9.24 △ 1.21 9.65	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.6	19.6	18.4
	Base Number (BN)	mg KOH/g	ASTM D2896	9.4	9.24	<u> </u>	9.65



# **OIL ANALYSIS REPORT**



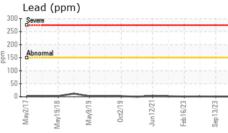


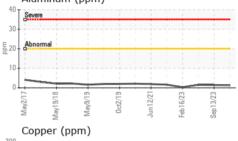


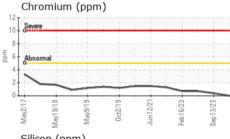
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

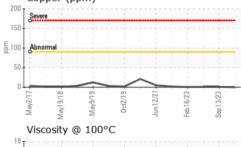
I LOID I NOI LI	THES	memou			HISTOLAL	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	14	13.4	13.6	13.8

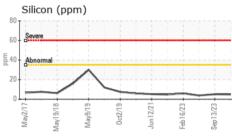
Seven	e	)				
200 Abne	rmal					
50 -						
50						
0	- 0	-6	61		3	
2/1	May19/18	May9/19	0ct2/1	un12/2	-eb16/23	Sep13/2
May		-		_	1	S
May2/		(ppm	١			

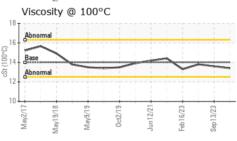


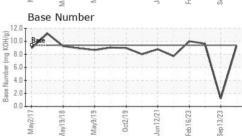
















Certificate 12367

Sample No.

Lab Number : 06161004

: RW0004902 Unique Number : 10996427 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

**HOMER CONCRETE** 205 S CEDAR ST IMLAY CITY, MI US 48444 Contact: DENNIS ONDRAJKA

homerconcrete@aol.com

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.

T: (810)724-3905 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (810)724-0733

Report Id: HOMIML [WUSCAR] 06161004 (Generated: 04/26/2024 14:42:51) Rev: 1

Contact/Location: DENNIS ONDRAJKA - HOMIML