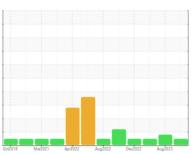


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id TEREX MIXER FD6000 1532 (S/N 011355)

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (8 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

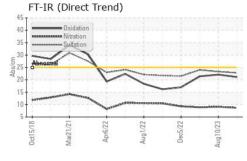
Fluid Condition

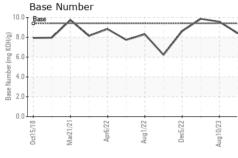
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

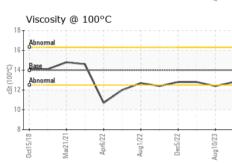
Sample Date	SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 408 399 428	Sample Number		Client Info		RW0004895	RW0004372	RW0004036
Oil Age hrs Client Info 408 399 428 Oil Changed Client Info Changed	Sample Date		Client Info		03 Jan 2024	10 Aug 2023	25 Apr 2023
Client Info	Machine Age	hrs	Client Info		3568	3148	2328
NORMAL MARGINAL NORMAL	Oil Age	hrs	Client Info		408	399	428
NORMAL MARGINAL NORMAL	Oil Changed		Client Info		Changed	Changed	Changed
Fuel	Sample Status						
Water Glycol WC Method >0.2 NEG NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 33 45 56 Chromium ppm ASTM D5185m >20 0 <1 <1 Nickel ppm ASTM D5185m >2 0 <1 0 Silver 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 >25 1 1 <1 2 Copper ppm ASTM D5185m >40 <1 1 2 Copper ppm ASTM D5185m 0 0 0 0 Calcadium ppm ASTM D5185m 0	CONTAMINATION		method	limit/base	current	history1	history2
WEAR METALS	Fuel		WC Method	>5	<1.0	▲ 3.9	<1.0
WEAR METALS	Water		WC Method	>0.2	NEG	NEG	NEG
Irron	Glycol		WC Method		NEG	NEG	NEG
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>100	33	45	56
Nickel	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Titanium ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >2 0 <1 0 Aluminum ppm ASTM D5185m >2 0 <1 0 Actual Lead ppm ASTM D5185m >40 <1 1 2 Copper ppm ASTM D5185m >330 4 8 37 Tin ppm ASTM D5185m >15 <1 <1 3 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 44 31 45 Barium ppm ASTM D5185m 0 44 31 45 Barium ppm ASTM D5185m 0 42 43 44 Magnesium ppm ASTM D5185m 0 42 43 44 Magnesium ppm ASTM D5185m 1908 1549 163			ASTM D5185m	>2	0	<1	0
Silver	Titanium	mgg	ASTM D5185m	>2	0	0	0
Aluminum			ASTM D5185m	>2	0	<1	0
Lead			ASTM D5185m	>25		1	<1
Copper ppm ASTM D5185m >330 4 8 37 Tin ppm ASTM D5185m >15 <1							
Tin							
Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 44 31 45 Barium ppm ASTM D5185m 0 0 4 2 Molybdenum ppm ASTM D5185m 0 42 43 44 Manganese ppm ASTM D5185m 0 42 43 44 Magnesium ppm ASTM D5185m 0 576 463 504 Calcium ppm ASTM D5185m 1908 1549 1638 Phosphorus ppm ASTM D5185m 855 699 737 Zinc ppm ASTM D5185m 3242 2540 2616 CONTAMINANTS method limit/base current history1 history2 Solium					=		
Cadmium ppm ASTM D5185m 0 <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 44 31 45 Barium ppm ASTM D5185m 0 0 4 2 Molybdenum ppm ASTM D5185m 0 42 43 44 Manganese ppm ASTM D5185m 0 42 43 44 Magnesium ppm ASTM D5185m 0 576 463 504 Calcium ppm ASTM D5185m 1908 1549 1638 Phosphorus ppm ASTM D5185m 855 699 737 Zinc ppm ASTM D5185m 3242 2540 2616 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 2 0 0 Potassium				710			
ADDITIVES							
Boron		1-1-	method	limit/base	current	history1	history2
Barium ppm ASTM D5185m 0 4 2 Molybdenum ppm ASTM D5185m 0 42 43 44 Manganese ppm ASTM D5185m <1	_	nnm	ASTM D5185m				
Molybdenum ppm ASTM D5185m 0 42 43 44 Manganese ppm ASTM D5185m <1 <1 <1 Magnesium ppm ASTM D5185m 0 576 463 504 Calcium ppm ASTM D5185m 1908 1549 1638 Phosphorus ppm ASTM D5185m 855 699 737 Zinc ppm ASTM D5185m 1037 847 919 Sulfur ppm ASTM D5185m 3242 2540 2616 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 25 6 7 8 Sodium ppm ASTM D5185m 20 <1 1 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 8.7 9.1 8.9 Sulfation							
Manganese ppm ASTM D5185m <1 <1 <1 Magnesium ppm ASTM D5185m 0 576 463 504 Calcium ppm ASTM D5185m 1908 1549 1638 Phosphorus ppm ASTM D5185m 855 699 737 Zinc ppm ASTM D5185m 1037 847 919 Sulfur ppm ASTM D5185m 3242 2540 2616 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 7 8 Sodium ppm ASTM D5185m 2 0 0 0 Potassium ppm ASTM D5185m >20 <1							_
Magnesium ppm ASTM D5185m 0 576 463 504 Calcium ppm ASTM D5185m 1908 1549 1638 Phosphorus ppm ASTM D5185m 855 699 737 Zinc ppm ASTM D5185m 1037 847 919 Sulfur ppm ASTM D5185m 3242 2540 2616 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 25 6 7 8 Sodium ppm ASTM D5185m 20 <1 1 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.6 0.7 0.8 Nitration Abs/cm *ASTM D7624 >20 8.7 9.1 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 22.8 23.3 24.0							
Calcium ppm ASTM D5185m 1908 1549 1638 Phosphorus ppm ASTM D5185m 855 699 737 Zinc ppm ASTM D5185m 1037 847 919 Sulfur ppm ASTM D5185m 3242 2540 2616 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 25 6 7 8 Sodium ppm ASTM D5185m 2 0 0 0 Potassium ppm ASTM D5185m >20 <1				0			
Phosphorus ppm ASTM D5185m 855 699 737 Zinc ppm ASTM D5185m 1037 847 919 Sulfur ppm ASTM D5185m 3242 2540 2616 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 7 8 Sodium ppm ASTM D5185m 2 0 0 0 Potassium ppm ASTM D5185m >20 <1	J			U			
Zinc ppm ASTM D5185m 1037 847 919 Sulfur ppm ASTM D5185m 3242 2540 2616 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 7 8 Sodium ppm ASTM D5185m 2 0 0 Potassium ppm ASTM D5185m >20 <1 1 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.6 0.7 0.8 Nitration Abs/cm *ASTM D7624 >20 8.7 9.1 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 22.8 23.3 24.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 21.1							
Sulfur ppm ASTM D5185m 3242 2540 2616 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 7 8 Sodium ppm ASTM D5185m 2 0 0 Potassium ppm ASTM D5185m >20 <1							
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 7 8 Sodium ppm ASTM D5185m 2 0 0 Potassium ppm ASTM D5185m >20 <1							
Silicon ppm ASTM D5185m >25 6 7 8 Sodium ppm ASTM D5185m 2 0 0 Potassium ppm ASTM D5185m >20 <1 1 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.6 0.7 0.8 Nitration Abs/cm *ASTM D7624 >20 8.7 9.1 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 22.8 23.3 24.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 21.1 22.1 21.4		PP		limit/base			
Sodium ppm ASTM D5185m 2 0 0 Potassium ppm ASTM D5185m >20 <1		nnm				•	
Potassium ppm ASTM D5185m >20 <1 1 1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.6 0.7 0.8 Nitration Abs/cm *ASTM D7624 >20 8.7 9.1 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 22.8 23.3 24.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 21.1 22.1 21.4				725			
INFRA-RED				>20			
Soot % % *ASTM D7844 >3 0.6 0.7 0.8 Nitration Abs/cm *ASTM D7624 >20 8.7 9.1 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 22.8 23.3 24.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 21.1 22.1 21.4		1-1-					history2
Nitration Abs/cm *ASTM D7624 > 20 8.7 9.1 8.9 Sulfation Abs/.1mm *ASTM D7415 > 30 22.8 23.3 24.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 > 25 21.1 22.1 21.4		%				•	
Sulfation Abs/.1mm *ASTM D7415 >30 22.8 23.3 24.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 21.1 22.1 21.4							
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 21.1 22.1 21.4							
Oxidation Abs/.1mm *ASTM D7414 >25 21.1 22.1 21.4							history2
				>25		•	· ·
		mg KOH/g			8.40	9.57	9.86



OIL ANALYSIS REPORT





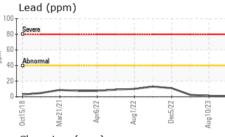


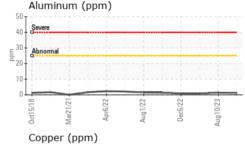
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

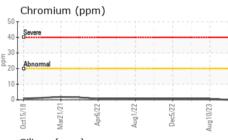
I LOID I NOI LI	TILO	memou			HISTOLAL	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	14	12.8	12.4	12.8

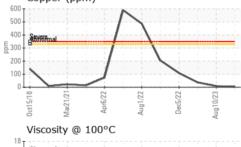
Iron (pp	om)				
Severe					
150					
Abnormal				_	
50					
0					
Oct15/18	Mar21/2 Apr6/22	Aug1/22	Dec5/27	Aug10/23	
	2	Ā		Aug	
Aluminu	ım (ppm)				

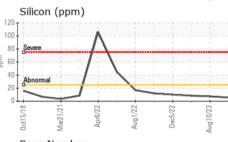
GRAPHS

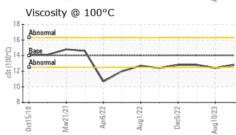


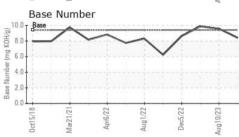
















Certificate 12367

Laboratory Sample No.

: RW0004895 Lab Number : 06161001 Unique Number : 10996424

Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** Diagnosed

: 25 Apr 2024 : 26 Apr 2024

: 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 F: (810)724-0733

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: HOMIML [WUSCAR] 06161001 (Generated: 04/26/2024 14:41:34) Rev: 1

Contact/Location: DENNIS ONDRAJKA - HOMIML