

# **OIL ANALYSIS REPORT**

### Sample Rating Trend



Machine Id

# **OSHKOSH MIXER 4378**

**Diesel Engine** 

MOBIL 15W40 (--- GAL)

### Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

### 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 INFORMATION   method   limit/base   current   history1   history2   Sample Number   Client Info   29 Apr 2024   17 Mar 2024     Machine Age   mls   Client Info   64709   61917     Old Age   mls   Client Info   O   O   O   O   O   O   O   O   O				Mar2024	Apr2024		
Sample Number   Client Info   WC0909288   WC0906093				Molecult	APIEVET		
Client Info	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age   mls   Client Info   0   0   0   0   0   0   0   0   0	Sample Number		Client Info		WC0909288	WC0906093	
Dil Age	Sample Date		Client Info		29 Apr 2024	17 Mar 2024	
Client Info	Machine Age	mls	Client Info		64709	61917	
NORMAL   NORMAL   CONTAMINATION   method   limit/base   current   history1   history2   history3   history3   history3   history3   history3   history3   history3   history3   history3   NA   Contamination   NEG   NEG   NEG   NEG   NEG   Contamination   NEG   NEG   NEG   Contamination   NEG   NEG   NEG   NEG   NEG   Contamination   NEG   NEG	Oil Age	mls	Client Info		0	0	
CONTAMINATION	Oil Changed		Client Info		Changed	Changed	
Fuel	Sample Status				NORMAL	NORMAL	
Water         WC Method         >0.2         NEG         NEG            Glycol         WC Method         Imit/base         current         history1         history1           WEAR METALS         method         limit/base         current         history1         history1           ron         ppm         ASTM D5185m         >100         0         5            Chromium         ppm         ASTM D5185m         >20         0         1            Siklee         ppm         ASTM D5185m         >4         0         1            Sikleer         ppm         ASTM D5185m         >3         0         <1	CONTAMINATIO	N	method	limit/base	current	history1	history2
WEAR METALS	<sup>=</sup> uel		WC Method	>5	<1.0	<1.0	
WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >100         0         5            Chromium         ppm         ASTM D5185m         >20         0         1            Nickel         ppm         ASTM D5185m         >20         0         1            Silver         ppm         ASTM D5185m         >3         0         <1	Water		WC Method	>0.2	NEG	NEG	
Part	Glycol		WC Method		NEG	NEG	
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Silver	ron	ppm	ASTM D5185m	>100	0	5	
Description	Chromium	ppm	ASTM D5185m	>20	0	1	
Silver	Nickel	ppm	ASTM D5185m	>4	0	1	
Aluminum	Titanium	ppm	ASTM D5185m		0	<1	
Lead	Silver	ppm	ASTM D5185m	>3	0	<1	
Copper	Aluminum	ppm	ASTM D5185m	>20	<1	1	
Tin	_ead	ppm	ASTM D5185m	>40	0	1	
Vanadium         ppm         ASTM D5185m         0         <1            Cadmium         ppm         ASTM D5185m         0         1            ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         <1            Barium         ppm         ASTM D5185m         58         59            Wolybdenum         ppm         ASTM D5185m         58         59            Wanganese         ppm         ASTM D5185m         0         1            Magnesium         ppm         ASTM D5185m         981         879            Phosphorus         ppm         ASTM D5185m         1090         996            Phosphorus         ppm         ASTM D5185m         1089         963            Zinc         ppm         ASTM D5185m         1269         1119            Contaction         ppm         ASTM D5185m         >25         0         4            Contaction         ppm         ASTM D5185m         >118         1	Copper	ppm	ASTM D5185m	>330	0	1	
ADDITIVES	Γin	ppm	ASTM D5185m	>15	0	1	
ADDITIVES	Vanadium	ppm	ASTM D5185m		0	<1	
Soron   ppm   ASTM D5185m   0   0   0   0   0	Cadmium	ppm	ASTM D5185m		0	1	
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         58         59            Manganese         ppm         ASTM D5185m         0         1            Magnesium         ppm         ASTM D5185m         981         879            Calcium         ppm         ASTM D5185m         1090         996            Phosphorus         ppm         ASTM D5185m         1089         963            Zinc         ppm         ASTM D5185m         1269         1119            Sulfur         ppm         ASTM D5185m         3742         2957            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         4            Sodium         ppm         ASTM D5185m         >20         0         2            Potassium         ppm         ASTM D5185m         >20         0         2            INFRA-RED         method         limit/base         current         history1         history2           Soot %         % <td< td=""><td>Boron</td><td>ppm</td><td>ASTM D5185m</td><td></td><td>0</td><td>&lt;1</td><td></td></td<>	Boron	ppm	ASTM D5185m		0	<1	
Manganese         ppm         ASTM D5185m         0         1            Magnesium         ppm         ASTM D5185m         981         879            Calcium         ppm         ASTM D5185m         1090         996            Phosphorus         ppm         ASTM D5185m         1089         963            Zinc         ppm         ASTM D5185m         1269         1119            Sulfur         ppm         ASTM D5185m         3742         2957            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         4            Sodium         ppm         ASTM D5185m         >18         1         1            Potassium         ppm         ASTM D5185m         >20         0         2            INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.2         0.3            Sulfation <td< td=""><td>Barium</td><td>ppm</td><td>ASTM D5185m</td><td></td><td>0</td><td>0</td><td></td></td<>	Barium	ppm	ASTM D5185m		0	0	
Magnesium         ppm         ASTM D5185m         981         879            Calcium         ppm         ASTM D5185m         1090         996            Phosphorus         ppm         ASTM D5185m         1089         963            Zinc         ppm         ASTM D5185m         1269         1119            Sulfur         ppm         ASTM D5185m         3742         2957            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         4            Sodium         ppm         ASTM D5185m         >20         0         2            Potassium         ppm         ASTM D5185m         >20         0         2            INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.2         0.3            Sulfation         Abs/.1mm         *ASTM D7415         >30         17.7         17.9	Molybdenum	ppm	ASTM D5185m		58	59	
Calcium         ppm         ASTM D5185m         1090         996            Phosphorus         ppm         ASTM D5185m         1089         963            Zinc         ppm         ASTM D5185m         1269         1119            Sulfur         ppm         ASTM D5185m         3742         2957            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         4            Sodium         ppm         ASTM D5185m         >118         1         1            Potassium         ppm         ASTM D5185m         >20         0         2            INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.2         0.3            Sulfation         Abs/.1mm         *ASTM D7415         >30         17.7         17.9            FLUID DEGRADATION         method         limit/base         current         history1         history2	Manganese	ppm	ASTM D5185m		0	1	
Phosphorus         ppm         ASTM D5185m         1089         963            Zinc         ppm         ASTM D5185m         1269         1119            Sulfur         ppm         ASTM D5185m         3742         2957            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         4            Sodium         ppm         ASTM D5185m         >118         1         1            Potassium         ppm         ASTM D5185m         >20         0         2            INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.2         0.3            Nitration         Abs/cm         *ASTM D7624         >20         5.7         6.0            Sulfation         Abs/.1mm         *ASTM D7415         >30         17.7         17.9            FLUID DEGRADATION         method         limit/base         current         history1	Magnesium	ppm	ASTM D5185m		981	879	
Time	Calcium	ppm	ASTM D5185m		1090	996	
Zinc         ppm         ASTM D5185m         1269         1119            Sulfur         ppm         ASTM D5185m         3742         2957            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         4            Sodium         ppm         ASTM D5185m         >118         1         1            Potassium         ppm         ASTM D5185m         >20         0         2            INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.2         0.3            Nitration         Abs/cm         *ASTM D7624         >20         5.7         6.0            Sulfation         Abs/.1mm         *ASTM D7415         >30         17.7         17.9            FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         13	Phosphorus	ppm	ASTM D5185m		1089	963	
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         4            Sodium         ppm         ASTM D5185m         >118         1         1            Potassium         ppm         ASTM D5185m         >20         0         2            INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.2         0.3            Nitration         Abs/cm         *ASTM D7624         >20         5.7         6.0            Sulfation         Abs/.1mm         *ASTM D7415         >30         17.7         17.9            FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         13.4         13.6		ppm	ASTM D5185m		1269	1119	
Solition   ppm   ASTM D5185m   >25   0	Sulfur				3742	2957	
Sodium	CONTAMINANTS	;	method	limit/base	current	history1	history2
Potassium   ppm   ASTM D5185m   >118   1   1	Silicon	ppm	ASTM D5185m	>25	0	4	
Potassium         ppm         ASTM D5185m         >20         0         2            INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.2         0.3            Nitration         Abs/cm         *ASTM D7624         >20         5.7         6.0            Sulfation         Abs/.1mm         *ASTM D7415         >30         17.7         17.9            FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         13.4         13.6	Sodium		ASTM D5185m	>118	1	1	
Soot %         %         *ASTM D7844         >3         0.2         0.3            Nitration         Abs/cm         *ASTM D7624         >20         5.7         6.0            Sulfation         Abs/.1mm         *ASTM D7415         >30         17.7         17.9            FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         13.4         13.6	Potassium		ASTM D5185m	>20		2	
Nitration         Abs/cm         *ASTM D7624         >20         5.7         6.0            Sulfation         Abs/.1mm         *ASTM D7415         >30         17.7         17.9            FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         13.4         13.6	INFRA-RED		method	limit/base	current	history1	history2
Sulfation         Abs/.1mm         *ASTM D7415         >30         17.7         17.9            FLUID DEGRADATION         method         limit/base         current         history1         history2           Dxidation         Abs/.1mm         *ASTM D7414         >25         13.4         13.6	Soot %	%	*ASTM D7844	>3	0.2	0.3	
FLUID DEGRADATION method limit/base current history1 history2  Oxidation Abs/.1mm *ASTM D7414 >25 13.4 13.6	Nitration	Abs/cm	*ASTM D7624	>20	5.7	6.0	
Oxidation	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7	17.9	
	FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 9.2 9.0	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4	13.6	
	Base Number (BN)	mg KOH/g	ASTM D2896		9.2	9.0	



## **OIL ANALYSIS REPORT**







Certificate 12367

Report Id: CONFAY [WUSCAR] 06197250 (Generated: 06/03/2024 18:28:55) Rev: 1

Laboratory Sample No.

Lab Number : 06197250

: WC0909288

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.

Unique Number : 11059373

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Jun 2024 **Tested** 

: 03 Jun 2024 Diagnosed Test Package : MOB 1 ( Additional Tests: TBN )

: 03 Jun 2024 - Wes Davis

US 28301 Contact: BRYAN VANNIMAN bryanvanniman@fayblock.com T: (800)326-9198

**CONCRETE SERVICE CO - FAY BLOCK** 

161 BUILDERS BLVD

FAYETTEVILLE, NC

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

Contact/Location: BRYAN VANNIMAN - CONFAY