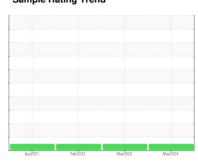


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id BV / east mixer motor Gearbox

MOBIL MOBIL MOBILGEAR XMP 220 (--- 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 condition of the oil is acceptable for the time in service.

Client Info	AL)		Apr202	1 Feb 2022	Mar2022 M	ar2024	
Client Info	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Date	Sample Number		Client Info		PCA0082716	PCA0069561	PCA0058453
Machine Age hrs Client Info 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0			Client Info		28 Mar 2024	28 Mar 2022	14 Feb 2022
Oil Age	•	hrs					
Oil Changed Client Info Not Changd NORMAL NORMAL NORMAL		hrs	Client Info		0		0
NORMAL NORMAL NORMAL NORMAL	-				Not Changd	Not Changd	
Water WC Method >0.2 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >200 80 16 22 Chromium ppm ASTM D5185m >10 <1 0 <1 Nickel ppm ASTM D5185m >10 <1 0 <1 Silver ppm ASTM D5185m >10 <1 0 <1 Aluminum ppm ASTM D5185m >50 <1 0 0 Aluminum ppm ASTM D5185m >50 <1 0 0 Lead ppm ASTM D5185m >50 <1 0 0 Copper ppm ASTM D5185m >50 <1 0 0 Astmound ppm ASTM D5185m >50 <1 0 0 Astmound ppm ASTM D5185m 0 68 74 <th< td=""><td></td><td></td><td></td><td></td><th></th><td>Ŭ</td><td>NORMAL</td></th<>						Ŭ	NORMAL
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >200 80 16 22 Chromium ppm ASTM D5185m >10 <1	CONTAMINA	TION	method	limit/base	current	history1	history2
	Water		WC Method	>0.2	NEG	NEG	NEG
Chromium	WEAR META	LS	method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>200	80	16	22
Nickel	Chromium		ASTM D5185m	>10	<1	0	<1
Titanium	Nickel		ASTM D5185m	>10	<1	0	0
Silver	Titanium		ASTM D5185m		1	0	<1
Aluminum					0	0	0
Lead				>25			
Copper							
Tin							
Antimony							
Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m <1 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 68 74 16 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 <1 0 <1 Manganese ppm ASTM D5185m 1 0 <1 0 <1 Manganesium ppm ASTM D5185m 0 87 11 0 1 Calcium ppm ASTM D5185m 0 87 11 24 Phosphorus ppm ASTM D5185m 0 0 0 7 Sulfur ppm ASTM D5185m 0 0 0 7 Sulfur ppm ASTM D5185m >50 45 8							
ADDITIVES	•			, 0	0	0	0
Boron			ASTM D5185m				
Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 0 <1 0 <1 Manganese ppm ASTM D5185m 1 0 <1 Magnesium ppm ASTM D5185m 11 0 1 Calcium ppm ASTM D5185m 0 87 11 24 Phosphorus ppm ASTM D5185m 485 279 290 338 Zinc ppm ASTM D5185m 0 0 0 7 Sulfur ppm ASTM D5185m 7245 7493 12960 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 45 8 11 Sodium ppm ASTM D5185m >20 5 0 0 VISUAL method limit/base current history1 history2 White Metal <th>ADDITIVES</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 0 <1 0 <1 Manganese ppm ASTM D5185m 1 0 <1 Magnesium ppm ASTM D5185m 0 87 11 24 Calcium ppm ASTM D5185m 0 87 11 24 Phosphorus ppm ASTM D5185m 0 0 0 7 Zinc ppm ASTM D5185m 0 0 0 7 Sulfur ppm ASTM D5185m 7245 7493 12960 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 45 8 11 Sodium ppm ASTM D5185m >20 5 0 0 Potassium ppm ASTM D5185m >20 5 0 0 White Metal scalar *Visual NONE NONE NONE NONE<	Boron	ppm	ASTM D5185m	0	68	74	16
Manganese ppm ASTM D5185m 1 0 <1 Magnesium ppm ASTM D5185m 11 0 1 Calcium ppm ASTM D5185m 0 87 11 24 Phosphorus ppm ASTM D5185m 485 279 290 338 Zinc ppm ASTM D5185m 0 0 0 7 Sulfur ppm ASTM D5185m 7245 7493 12960 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 45 8 11 Sodium ppm ASTM D5185m >20 5 0 0 Potassium ppm ASTM D5185m >20 5 0 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE <	Barium	ppm	ASTM D5185m		0	0	0
Manganese ppm ASTM D5185m 1 0 <1 Magnesium ppm ASTM D5185m 11 0 1 Calcium ppm ASTM D5185m 0 87 11 24 Phosphorus ppm ASTM D5185m 485 279 290 338 Zinc ppm ASTM D5185m 0 0 0 7 Sulfur ppm ASTM D5185m 7245 7493 12960 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 45 8 11 Sodium ppm ASTM D5185m >20 5 0 0 Potassium ppm ASTM D5185m >20 5 0 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE <	Molybdenum	ppm	ASTM D5185m	0	<1	0	<1
Magnesium ppm ASTM D5185m 11 0 1 Calcium ppm ASTM D5185m 0 87 11 24 Phosphorus ppm ASTM D5185m 485 279 290 338 Zinc ppm ASTM D5185m 0 0 0 7 Sulfur ppm ASTM D5185m 7245 7493 12960 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 45 8 11 Sodium ppm ASTM D5185m >20 5 0 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE	•	ppm	ASTM D5185m		1	0	<1
Calcium ppm ASTM D5185m 0 87 11 24 Phosphorus ppm ASTM D5185m 485 279 290 338 Zinc ppm ASTM D5185m 0 0 0 7 Sulfur ppm ASTM D5185m 7245 7493 12960 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 45 8 11 Sodium ppm ASTM D5185m >20 5 0 0 Potassium ppm ASTM D5185m >20 5 0 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE	-		ASTM D5185m		11	0	1
Phosphorus ppm ASTM D5185m 485 279 290 338 Zinc ppm ASTM D5185m 0 0 0 7 Sulfur ppm ASTM D5185m 7245 7493 12960 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 45 8 11 Sodium ppm ASTM D5185m >20 5 0 0 Potassium ppm ASTM D5185m >20 5 0 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE <td>Calcium</td> <td></td> <td>ASTM D5185m</td> <td>0</td> <th>87</th> <td>11</td> <td>24</td>	Calcium		ASTM D5185m	0	87	11	24
Zinc	Phosphorus		ASTM D5185m	485	279	290	338
Sulfur ppm ASTM D5185m 7245 7493 12960 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 45 8 11 Sodium ppm ASTM D5185m 0 0 <1			ASTM D5185m	0	0		
Silicon ppm ASTM D5185m >50 45 8 11 Sodium ppm ASTM D5185m 0 0 <1 Potassium ppm ASTM D5185m >20 5 0 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE	-						
Sodium ppm ASTM D5185m 0 0 <1 Potassium ppm ASTM D5185m >20 5 0 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE	CONTAMINA	NTS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 5 0 0 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 LIGHT NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE	Silicon	ppm	ASTM D5185m	>50	45	8	11
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 LIGHT NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE NONE NONE	Sodium	ppm	ASTM D5185m		0	0	<1
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 LIGHT NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE	Potassium	ppm	ASTM D5185m	>20	5	0	0
Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE LIGHT NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE	VISUAL		method	limit/base	current	history1	history2
Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE LIGHT NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE LIGHT NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silt scalar *Visual NONE LIGHT NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE							
Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONE							
Sand/Dirt scalar *Visual NONE NONE NONE NONE							
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML

NORML

>0.2

scalar *Visual

scalar *Visual

*Visual

scalar

NORML

NEG

NEG

NORML

Odor

Emulsified Water

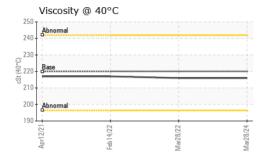
NORML

NEG

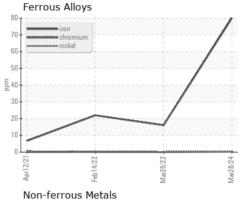
Submitted By: senjeczimmer

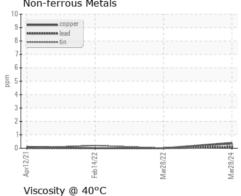


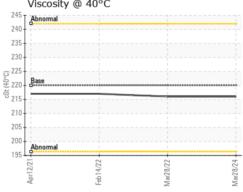
OIL ANALYSIS REPORT



FLUID PROP	ERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	216	216	217
SAMPLE IMA	GES	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image









Certificate 12367

Laboratory Sample No.

Test Package : FLEET

Lab Number : 06155340

: PCA0082716 Unique Number : 10990763

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Apr 2024

Tested : 24 Apr 2024 Diagnosed

: 24 Apr 2024 - Sean Felton

14698 GALAXY AVE APPLE VALLEY, MN US 55124

AVR - APPLE VALLEY READY MIX

Contact: COLE DAMBROTEN coledambroten@avrconcrete.com T:

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: