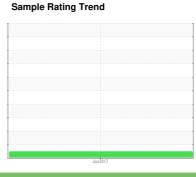


OIL ANALYSIS REPORT

KANSAS/44/Sh-Bulk Tanks Shop 3 Tanks [KANSAS^44^Sh-Bulk Tanks]

Gear Lube System

MOBIL MOBILUBE HD PLUS 85W140 (--- GAL)





DIAGNOSIS	
Recommendat	ion

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the component.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION method fimit/bass current history1 history2	AL)				Jun2017		
Sample Date Client Info 12 Jun 2017 Machine Age hrs Client Info 0	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Date Client Info 12 Jun 2017	Sample Number		Client Info		WCMCF23314		
Machine Age hrs Client Info 0			Client Info		12 Jun 2017		
Oil Age hrs Client Info N/A Sample Status Client Info N/A CONTAMINATION method limit/base current history1 history2 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >150 1 Chromium ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m 10 0 Silver ppm ASTM D5185m 0 Silver ppm ASTM D5185m 0 Silver ppm ASTM D5185m 10 0 Aluminum ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m 0	•	hrs					
Contament Cont	Oil Age	hrs	Client Info		0		
CONTAMINATION method militibase current history1 history2			Client Info		N/A		
Water WC Method >0.1 NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM DS185m >150 1 Chromium ppm ASTM DS185m >10 0 Nickel ppm ASTM DS185m >10 0 Silver ppm ASTM DS185m 0 ALuminum ppm ASTM DS185m 0 ALead ppm ASTM DS185m >100 0 Lead ppm ASTM DS185m >10 0 ACOPPER ppm ASTM DS185m >10 0 APATM DS185m 0 0 Vanadium ppm ASTM DS185m 0 Bariu	-				NORMAL		
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >150 1	CONTAMINATION	J	method	limit/base	current	history1	history2
Chromium	Water		WC Method	>0.1	NEG		
Description	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>150	1		
Description	Chromium	ppm	ASTM D5185m	>10	0		
Silver	Nickel	ppm	ASTM D5185m	>10	0		
Astronometric Astronometri	Titanium	ppm	ASTM D5185m		0		
Lead	Silver	ppm	ASTM D5185m		0		
Copper	Aluminum	ppm	ASTM D5185m	>25	<1		
Trin	Lead	ppm	ASTM D5185m	>100	0		
Antimony	Copper	ppm	ASTM D5185m	>50	<1		
Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 118 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m <1 Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m 8 Calcium ppm ASTM D5185m 55 Phosphorus ppm ASTM D5185m 35 Sulfur ppm ASTM D5185m 22369 CONTAMINANTS method limit/base current history1 history2 Solicon ppm ASTM D5185m 20 2	Tin	ppm	ASTM D5185m	>10	0		
ADDITIVES	Antimony	ppm	ASTM D5185m		0		
ADDITIVES	Vanadium	ppm	ASTM D5185m		0		
Boron	Cadmium	ppm	ASTM D5185m		0		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m <1 Manganese ppm ASTM D5185m <1	Boron	ppm	ASTM D5185m		118		
Manganese ppm ASTM D5185m <1 Calcium ppm ASTM D5185m 8 Phosphorus ppm ASTM D5185m 782 Zinc ppm ASTM D5185m 35 Sulfur ppm ASTM D5185m 22369 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 2 Sodium ppm ASTM D5185m 20 <1	Barium	ppm	ASTM D5185m		0		
Magnesium ppm ASTM D5185m 8 Calcium ppm ASTM D5185m 55 Phosphorus ppm ASTM D5185m 782 Zinc ppm ASTM D5185m 35 Sulfur ppm ASTM D5185m 22369 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 2 Sodium ppm ASTM D5185m >20 <1	Molybdenum	ppm	ASTM D5185m		<1		
Calcium ppm ASTM D5185m 55 Phosphorus ppm ASTM D5185m 782 Zinc ppm ASTM D5185m 35 Sulfur ppm ASTM D5185m 22369 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 2 Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 <1	Manganese	ppm	ASTM D5185m		<1		
Phosphorus ppm ASTM D5185m 782 Sulfur ppm ASTM D5185m 35 Sulfur ppm ASTM D5185m 22369 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 2 Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 <1	Magnesium	ppm	ASTM D5185m		8		
Sulfur ppm ASTM D5185m 22369	Calcium	ppm	ASTM D5185m		55		
Sulfur ppm ASTM D5185m 22369 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 2 Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 <1	Phosphorus	ppm	ASTM D5185m		782		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 2 Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 <1	Zinc	ppm	ASTM D5185m		35		
Silicon	Sulfur		ASTM D5185m		22369		
Sodium	CONTAMINANTS		method	limit/base	current	history1	history2
Sodium	Silicon	ppm	ASTM D5185m	>50	2		
VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML	Sodium	ppm	ASTM D5185m		2		
White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML	Potassium	ppm	ASTM D5185m	>20	<1		
Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML	VISUAL		method	limit/base	current	history1	history2
Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML	White Metal	scalar	*Visual	NONE	NONE		
Silt scalar *Visual NONE NONE Scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Scalar *Visual NORML	Yellow Metal	scalar	*Visual	NONE	NONE		
Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NORML NORML COdor scalar *Visual NORML NORML COdor scalar *Visual NORML NORML	Precipitate	scalar	*Visual	NONE	NONE		
Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NORML NORML COdor scalar *Visual NORML NORML COdor scalar *Visual NORML NORML		scalar	*Visual	NONE	NONE		
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML COdor scalar *Visual NORML NORML	Debris						
Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML	Sand/Dirt	scalar			NONE		
Odor scalar *Visual NORML NORML							
	Outi	scalar	*Visual	NORML	NORML		

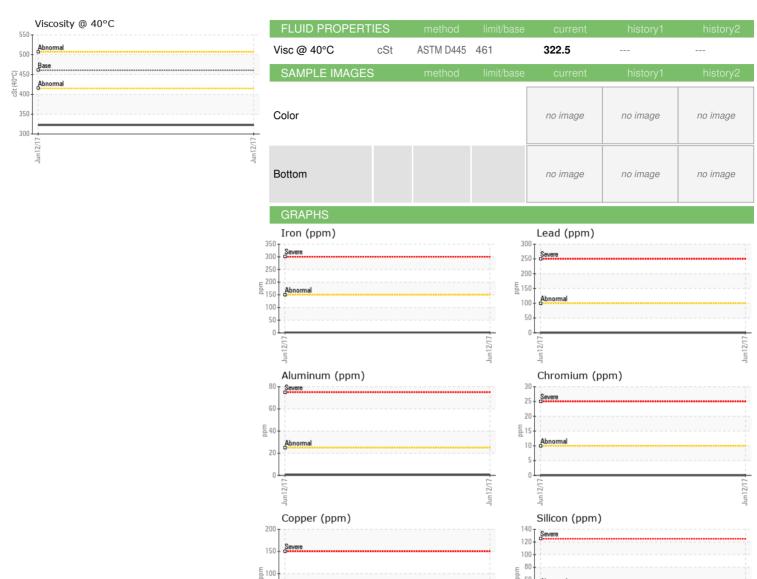
cation: DOUG KING -- SHEWIC

NEG

scalar *Visual



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number Unique Number Test Package : MOB 1

: WCMCF23314 : 04246820 : 7835255

Viscosity @ 40°C

500

्हुं 400

350

300

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 20 Jun 2017 Diagnosed : 23 Jun 2017

Diagnostician : Jonathan Hester

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.

SHERWOOD CONSTRUCTION CO INC

Contact/Location: DOUG KING - SHEWIC

Additives

600

400

200

3219 WEST MAY ST WICHITA, KS US 67213 Contact: DOUG KING

doug.king@sherwood.net

T: (316)617-3161 F: x:

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