



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Area
KANSAS/44/EG - OTHER SERVICE
Machine Id
41.33W [KANSAS^44^EG - OTHER SERVICE]
Component
Right Final Drive
Fluid
MOBIL MOBILUBE HD PLUS 75W90 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0741725	WC0528039	WC0434391
Sample Date		Client Info		21 Feb 2023	20 Jan 2021	12 Mar 2020
Machine Age	hrs	Client Info		4408	3130	2870
Oil Age	hrs	Client Info		1278	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	Not Changed
Sample Status				SEVERE	ABNORMAL	ABNORMAL

WEAR

Chromium and iron ppm levels are severe. Aluminum ppm levels are abnormal. Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	2228	770	328
Chromium	ppm	ASTM D5185m	>10	27	10	4
Nickel	ppm	ASTM D5185m		2	1	<1
Titanium	ppm	ASTM D5185m		10	2	1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	120	39	24
Lead	ppm	ASTM D5185m	>25	<1	<1	0
Copper	ppm	ASTM D5185m	>50	3	2	<1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

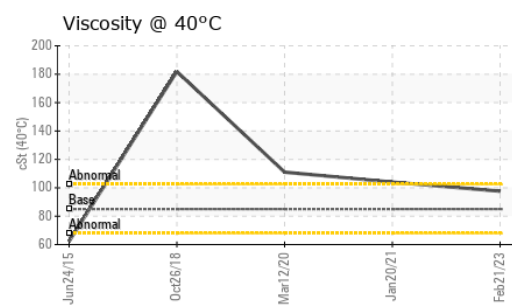
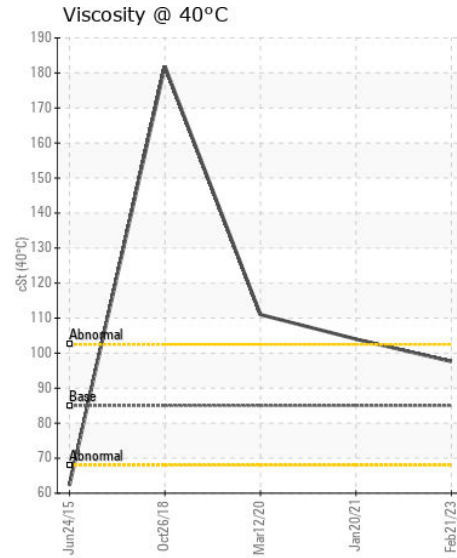
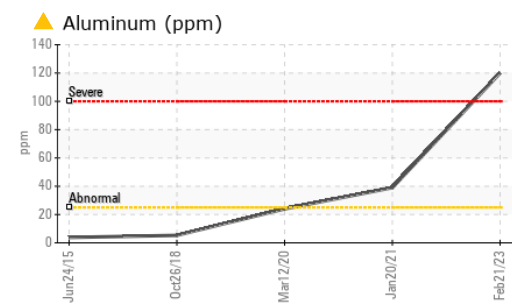
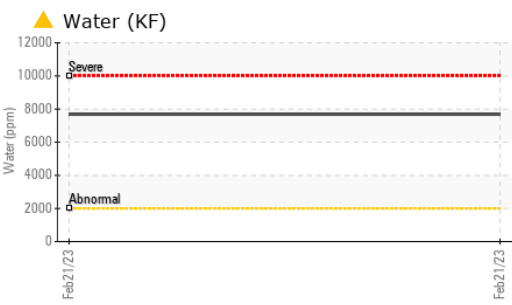
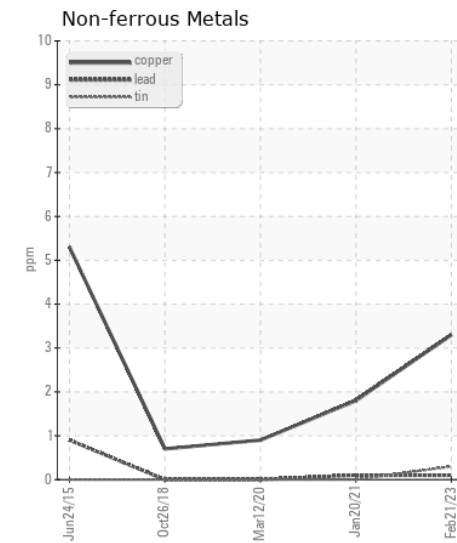
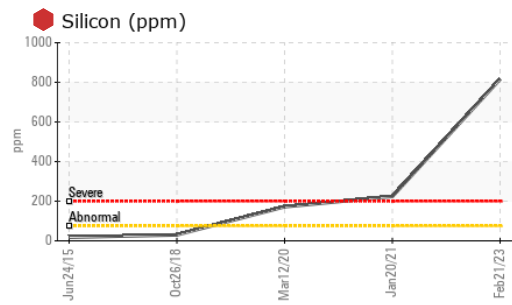
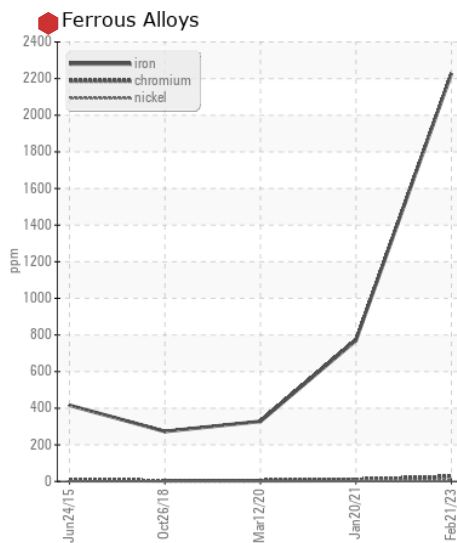
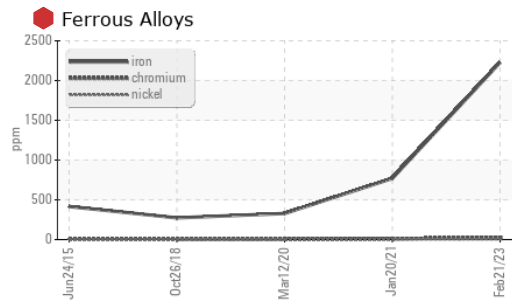
There is a moderate concentration of water present in the oil. High concentration of dirt present in the oil.

Silicon	ppm	ASTM D5185m	>75	816	224	172
Potassium	ppm	ASTM D5185m	>20	72	15	9
Water	%	ASTM D6304	>0.2	0.769	---	---
ppm Water	ppm	ASTM D6304	>2000	7690	---	---
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	0.2%	NEG	NEG

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185m		28	8	4
Boron	ppm	ASTM D5185m		291	273	236
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		2	<1	0
Manganese	ppm	ASTM D5185m		19	7	3
Magnesium	ppm	ASTM D5185m		46	13	12
Calcium	ppm	ASTM D5185m		559	203	610
Phosphorus	ppm	ASTM D5185m		1553	1370	1249
Zinc	ppm	ASTM D5185m		24	57	230
Sulfur	ppm	ASTM D5185m		27075	21673	17880
Visc @ 40°C	cSt	ASTM D445	85	97.6	104	111



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0741725 **Received** : 27 Feb 2023
Lab Number : 05777927 **Diagnosed** : 01 Mar 2023
Unique Number : 10357597 **Diagnostician** : Angela Borella
Test Package : CONST (Additional Tests: KF)

SHERWOOD CONSTRUCTION CO INC
 3219 WEST MAY ST
 WICHITA, KS
 US 67213
 Contact: DOUG KING
 doug.king@sherwood.net
 T: (316)617-3161
 F: x:

Certificate L2367
 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)