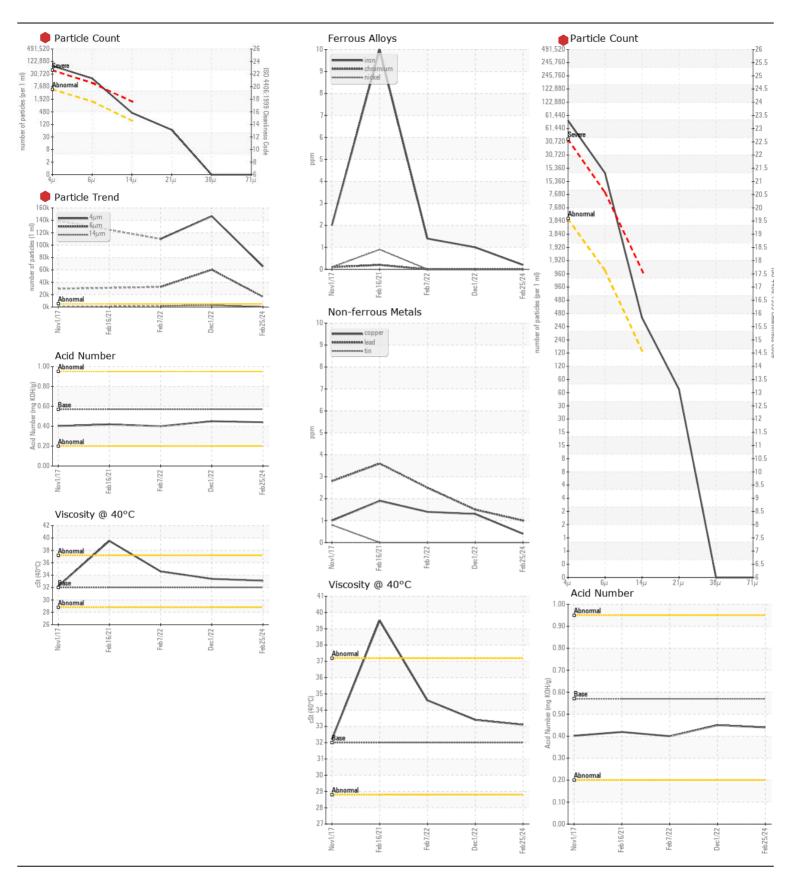


WEAR CONTAMINATION **FLUID CONDITION**

NORMAL SEVERE NORMAL

WQ Machine Id NORDBERG 00902

PECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
RECOMMENDATION	Sample Number	JOIVI	Client Info	LIIIII/AUII	WC0721333	,	History2 WC0524247
Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.	Sample Date		Client Info		25 Feb 2024	01 Dec 2022	07 Feb 2022
	Machine Age	mls	Client Info		0	0	0
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				SEVERE	ABNORMAL	ABNORMA
A/E A D			AOTA DEADE				
WEAR	Iron	ppm	ASTM D5185m		<1	1	1
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	0	0
	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	. 10	0	0	0
	Aluminum	ppm	ASTM D5185m		0	0	<1
	Lead	ppm	ASTM D5185m		1	2	2
	Copper	ppm	ASTM D5185m		<1	1	
	Tin	ppm	ASTM D5185m	>10	0	0	0
	Vanadium	ppm	ASTM D5185m	NONE	-		0
	White Metal Yellow Metal	scalar scalar	*Visual	NONE	NONE NONE	NONE NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	1	2	1
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m		0	0	0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4µm		ASTM D7647		65584	<u> 146756</u>	10987
	Particles >6µm		ASTM D7647		16602	▲ 60224	<u>\$2430</u>
	Particles >14µm		ASTM D7647		△ 377	△ 3065	1812
	Particles >21µm		ASTM D7647		▲ 58	▲ 329	<u>A</u> 282
	Particles >38µm		ASTM D7647		0	<u>12</u>	<u>15</u>
	Particles >71µm		ASTM D7647		0	1	0
	Oil Cleanliness		ISO 4406 (c)			A 24/23/19	<u>24/22/1</u>
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor Emulsified Water	scalar	*Visual	NORML >0.1	NORML NEG	NORML NEG	NORM NEG
<u></u>	Linuisilieu vvalei	Scalai	Visuai	20.1		INLG	INLO
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	<1	<1
	Boron	ppm	ASTM D5185m	5	2	0	<1
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.	Barium	ppm	ASTM D5185m	5	0	0	0
	Molybdenum	ppm	ASTM D5185m	5	<1	<1	<1
	Manganese	ppm	ASTM D5185m		0	0	0
	Magnesium	ppm	ASTM D5185m		2	2	0
	Calcium	ppm	ASTM D5185m	200	64	46	22
	Phosphorus	ppm	ASTM D5185m	300	293	326	326
	Zinc	ppm	ASTM D5185m	370	349	392	376
	Sulfur	ppm	ASTM D5185m	2500	909	890	993
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.44	0.45	0.40
	Visc @ 40°C	cSt	ASTM D445	20	33.1	33.4	34.6





Certificate L2367

Laboratory

Sample No.

: WC0721333 Lab Number : 06100106 Unique Number: 10898336 Test Package : MOB 2

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Feb 2024 **Tested** : 27 Feb 2024 Diagnosed

: 27 Feb 2024 - Wes Davis

WALPOLE, MA US 02081 Contact: PAUL BECKMAN pbeckman@smlorusso.com T: (508)668-2603

S.M. LORUSSO & SONS

221 NORFOLK ST.

F: (508)660-0232

* - 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)