



OIL ANALYSIS REPORT

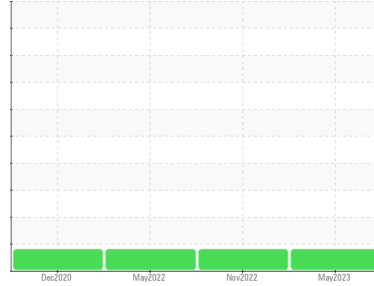
Sample Rating Trend

WEAR

Area
Coloring
Machine Id
LN1 Cooler

Component
Drive End Gearbox
Fluid

SCHAEFFER 293A SUPREME GEAR LUBE NO TACK 220 (4 GAL)



DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

▲ Wear

Gear wear is indicated. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0782521	WC0694588	WC0694602
Sample Date	Client Info		17 May 2023	25 Nov 2022	22 May 2022
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	2010	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	▲ 289	▲ 271	▲ 247
Chromium	ppm	ASTM D5185m >15	2	1	1
Nickel	ppm	ASTM D5185m >15	<1	<1	<1
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m	<1	<1	3
Aluminum	ppm	ASTM D5185m >25	3	2	1
Lead	ppm	ASTM D5185m >100	2	0	<1
Copper	ppm	ASTM D5185m >200	24	9	3
Tin	ppm	ASTM D5185m >25	2	<1	<1
Antimony	ppm	ASTM D5185m >5	---	---	---
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	<1	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	97	103	93
Barium	ppm	ASTM D5185m	5	0	3
Molybdenum	ppm	ASTM D5185m	351	377	346
Manganese	ppm	ASTM D5185m	3	3	3
Magnesium	ppm	ASTM D5185m	16	13	16
Calcium	ppm	ASTM D5185m	39	36	34
Phosphorus	ppm	ASTM D5185m	1101	1064	1098
Zinc	ppm	ASTM D5185m	41	39	42
Sulfur	ppm	ASTM D5185m	29462	25056	21535

CONTAMINANTS

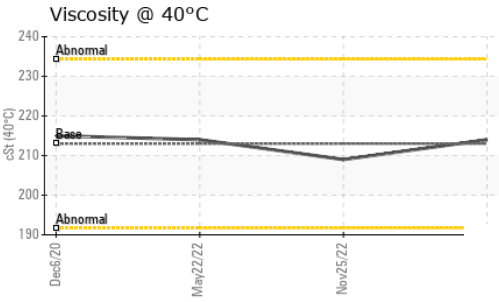
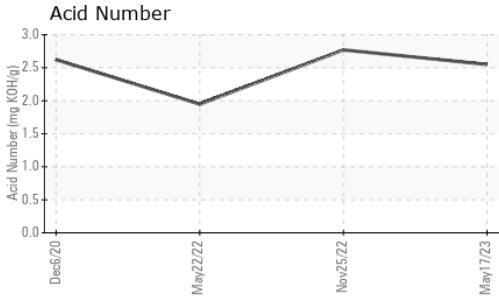
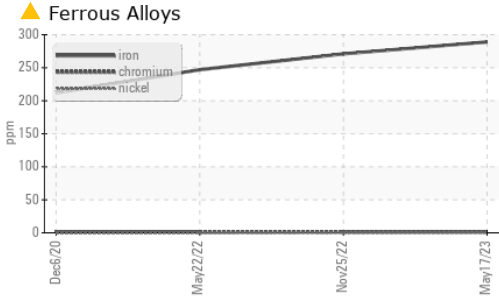
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	31	21	18
Sodium	ppm	ASTM D5185m	2	7	2
Potassium	ppm	ASTM D5185m >20	2	0	<1

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.55	2.77	1.948



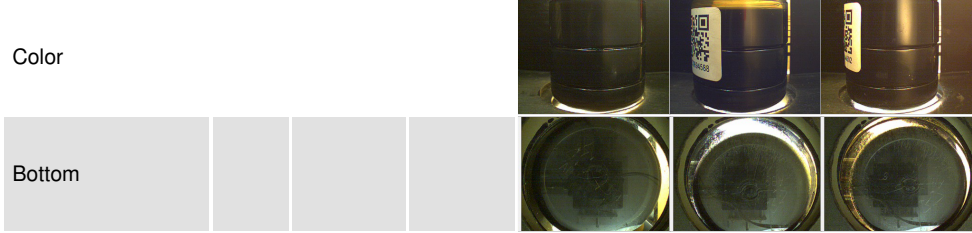
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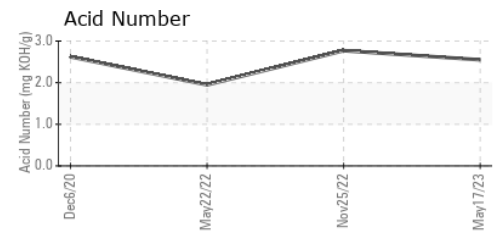
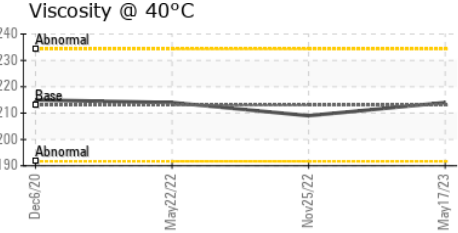
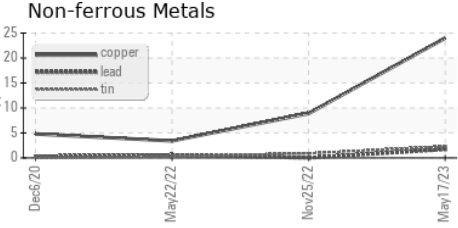
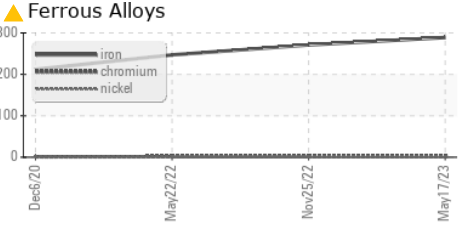
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 213	214	209	214

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0782521 **Recieved** : 18 May 2023
Lab Number : 05850733 **Diagnosed** : 22 May 2023
Unique Number : 10480088 **Diagnostician** : Don Baldrige
Test Package : IND 2

3M - PITTSBORO
 4191 NC 87 S
 MONCURE, NC
 US 27559
 Contact: CHARLES JARRELL
 cjarrell@mmm.com

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)