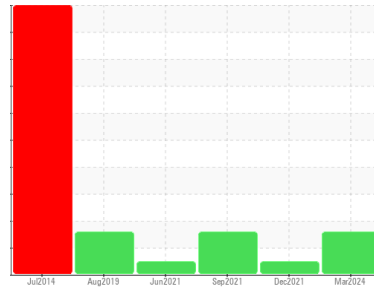




GREASE ANALYSIS

Sample Rating Trend



DIRT



Machine Id
FL 402-142-00 - DIGESTER (S/N 20608583)
 Component
Lower Grease
 Fluid
ROYAL PURPLE THERMAX 680 GREASE (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Please submit a sample of the new (unused) oil to establish a baseline.

Wear

All component wear rates are normal.

Grease Condition

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

Contaminants

Elemental level of silicon (Si) above normal.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0892365	RP0003322	RP0003295
Sample Date	Client Info		25 Mar 2024	06 Dec 2021	02 Sep 2021
Machine Age	mths	Client Info	0	0	0
Grease Age	mths	Client Info	0	0	0
Grease Serviced	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	NORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2	
PQ	ASTM D8184	>200	197	228	137	
Iron	ppm	ASTM D5185m	>250	208	333	285
Chromium	ppm	ASTM D5185m	>10	1	3	2
Nickel	ppm	ASTM D5185m	>5	4	3	3
Cadmium	ppm	ASTM D5185m		<1	<1	<1
Titanium	ppm	ASTM D5185m		5	17	16
Vanadium	ppm	ASTM D5185m		<1	1	<1
Lead	ppm	ASTM D5185m	>25	4	11	10
Copper	ppm	ASTM D5185m	>75	44	35	33
Tin	ppm	ASTM D5185m	>5	2	<1	<1
Silver	ppm	ASTM D5185m	>5	<1	<1	<1

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<1	467	497
Magnesium	ppm	ASTM D5185m		10	12	14
Manganese	ppm	ASTM D5185m		3	3	3
Molybdenum	ppm	ASTM D5185m		3	3	3
Phosphorus	ppm	ASTM D5185m		268	344	341
Zinc	ppm	ASTM D5185m		335	488	654
Antimony	ppm	ASTM D5185m		---	558	684

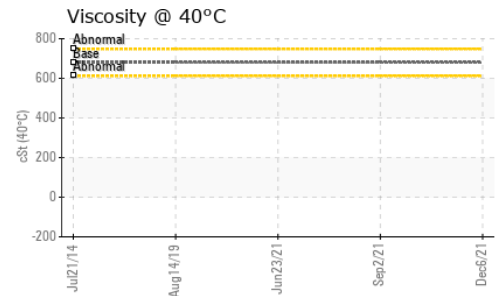
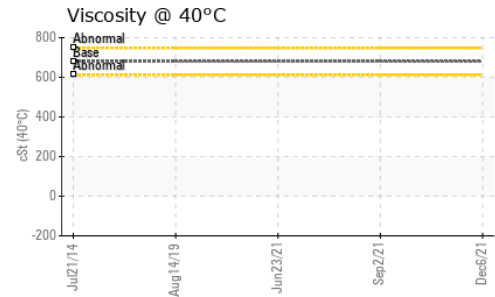
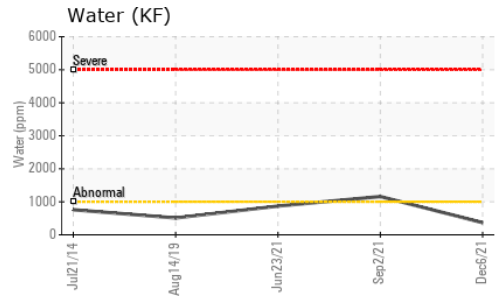
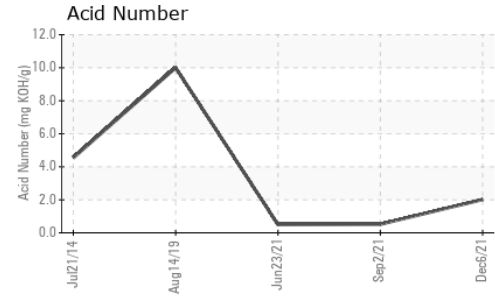
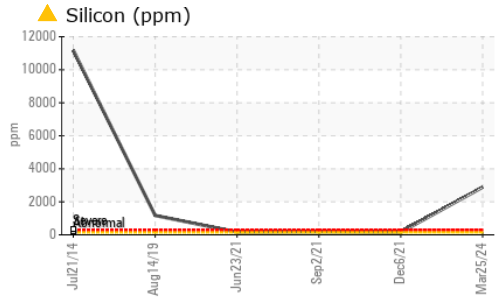
THICKENER/SOAP

	method	limit/base	current	history1	history2	
Aluminum	ppm	ASTM D5185m		4176	5063	5568
Barium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		40	49	55
Sodium	ppm	ASTM D5185m		10	13	16
Lithium	ppm	ASTM D5185m		---	2	2
Sulfur	ppm	ASTM D5185m		16589	13512	14409

CONTAMINANTS

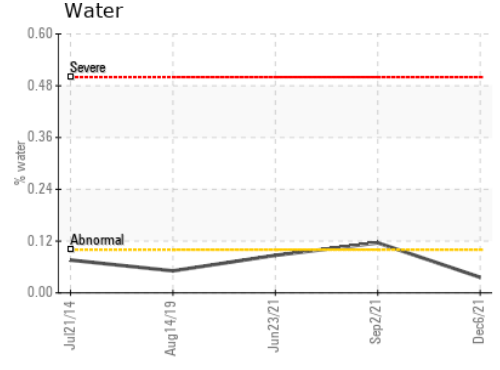
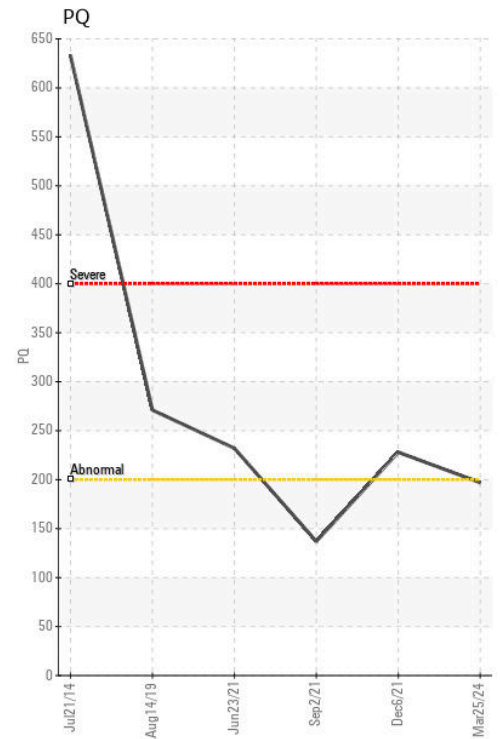
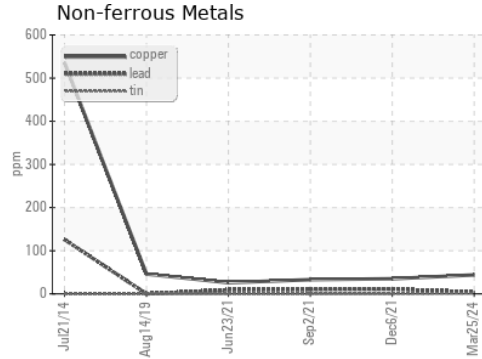
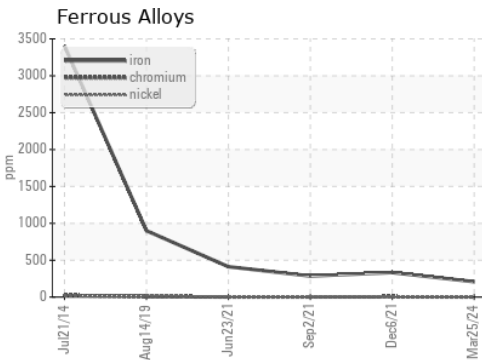
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>150	▲ 2888	155	▲ 187
Potassium	ppm	ASTM D5185m		3	<1	<1
Water	%	ASTM D6304	>0.1	NEG	0.036	0.116
ppm Water	ppm	ASTM D6304	>1000	---	368.7	1160

GREASE ANALYSIS



SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
MPC			no image	no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0892365 **Received** : 27 Mar 2024
Lab Number : 06131262 **Tested** : 19 Apr 2024
Unique Number : 10950727 **Diagnosed** : 19 Apr 2024 - Doug Bogart
Test Package : IND 2 (Additional Tests: KF, PQ)

INTERNATIONAL PAPER
 1785 Weyerhaeuser Road
 VANCEBORO, NC
 US 28586
 Contact: DOUG WEIR
 Doug.Weir@ipaper.com;jon.fazenbaker@wearcheck.com

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)