

Vibration & Oil Data Summary

PLANT	H.E.B. Produce Plant
Location	San Antonio, TX
April 29, 2020	Apr 22, 2024

1. Vibration Analysis

<u>Unit ID#</u>	<u>Equipment</u>		<u>Note</u>
C-1	FES/Mycom 270(200LUD)		
	Motor 350HP		
C-2	FES/Mycom 270(200LUD)		
	Motor 350 HP		
C-3	FES/GEA		
	Motor 400 HP		
C-4	Mycom 250VMD-LSX		
	Motor 600HP		
C-5	Mycom 250VMD-MSX		
	Motor 600HP-VFD		

2. Oil Analysis

<u>Unit ID#</u>	<u>Type of Oil</u>		<u>Note</u>
C-1	RC-7171/ISO-68		
C-2	RC-7171/ISO-68		
C-3	FES/ISO-68		
C-4	Mycold AB-68		
C-5	Mycold AB-68		

Warning Flag Notation

Flag Type	Reliability Assessments
Normal	Reliable
Showed sign of problem(s)	Reliable, but concern(s) existed.
Progresses problem(s)	Not reliable for continuous operation.
Critical	Unsafe to operate

Next Inspection: In 6 months. Oct 2024



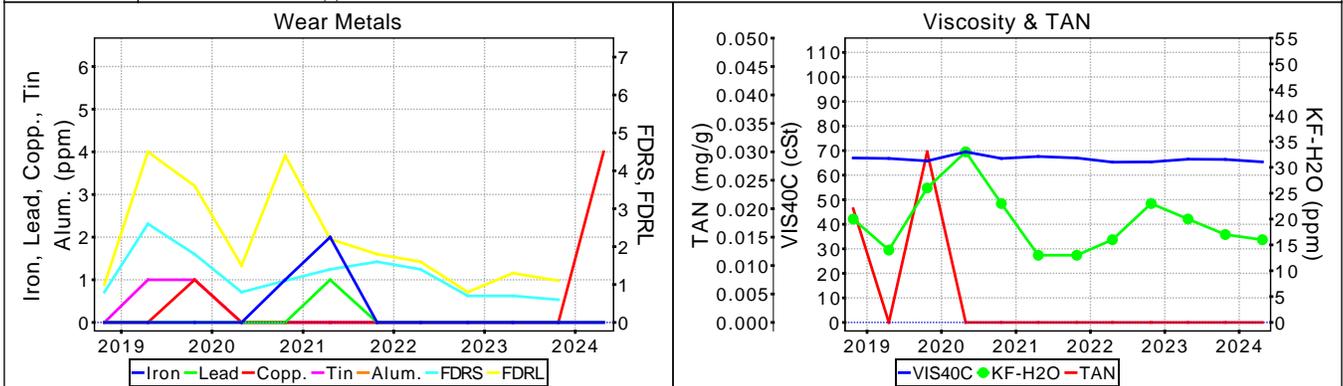
Unit	#1	Point ID	750106
Location	HEB/SA-PRODUCE	Serial No	2013732
Description	FES/MYCOM 270	Latest Oil	RC-717

Lab No.	Oil Use			Dates		Additive Metals							
	Exc.	Oil Usage	Oil Added	Unit Usage	Sample Date	Received Date	Phos ppm	Zinc ppm	Calc ppm	Barium ppm	Magn ppm	Moly ppm	Antim ppm
D1803		N/A	N/A	N/A	04/24/24	04/26/24	0	0	0	0	0	0	0
J1658		N/A	N/A	N/A	10/25/23	10/26/23	0	0	0	0	0	0	0
D1582		N/A	N/A	N/A	04/25/23	04/27/23	0	0	0	0	0	0	0
J1594		N/A	N/A	N/A	10/26/22	10/28/22	0	0	0	0	0	0	0
D1415		N/A	N/A	N/A	04/19/22	04/21/22	0	0	0	0	0	0	0

Lab No.	Wear Metals							Contaminant Metals					
	Iron ppm	Lead ppm	Copper ppm	Tin ppm	Alum ppm	Chrom ppm	Nickel ppm	Silver ppm	Titan ppm	Silicon ppm	Boron ppm	Sodium ppm	Potass ppm
D1803	0	0	4	0	0	0	0	0	0	2	0	0	0
J1658	0	0	0	0	0	0	0	0	0	2	0	0	0
D1582	0	0	0	0	0	0	0	0	0	0	0	0	0
J1594	0	0	0	0	0	0	0	0	0	0	0	0	0
D1415	0	0	0	0	0	0	0	0	0	0	0	0	0
ALARM	10	10	10	15	10	5	5	5	3	30	20	20	30

Physical Properties					
Lab No.	TAN mg/g	VIS40 cSt	KF-H2O ppm	FDRS	FDRL
D1803	0.00	65.4	16		
J1658	0.00	66.4	17	0.6	1.1
D1582	0.00	66.5	20	0.7	1.3
J1594	0.00	65.4	23	0.7	0.8
D1415	0.00	65.3	16	1.4	1.6
ALARM	0.2	57.8-78.2	100	15	30

Analysis Comments	
Lab No.	Comments
D1803	• Machine and oil appears normal.





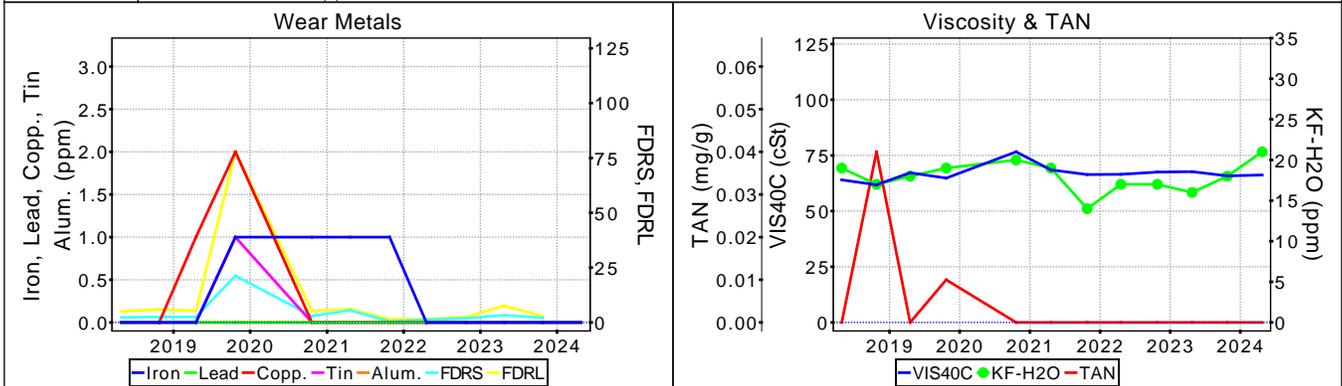
Unit	#2	Point ID	750104
Location	HEB/SA-PRODUCE	Serial No	2013731
Description	FES/MYCOM 270	Latest Oil	RC-717

Lab No.	Oil Use			Dates		Additive Metals							
	Exc.	Oil Usage	Oil Added	Unit Usage	Sample Date	Received Date	Phos ppm	Zinc ppm	Calc ppm	Barium ppm	Magn ppm	Moly ppm	Antim ppm
D1804		N/A	N/A	N/A	04/24/24	04/26/24	0	0	0	0	0	0	0
J1657		N/A	N/A	N/A	10/25/23	10/26/23	0	0	0	0	0	0	0
D1583		N/A	N/A	N/A	04/25/23	04/27/23	0	0	0	0	0	0	0
J1592		N/A	N/A	N/A	10/26/22	10/28/22	0	0	0	0	0	0	0
D1413		N/A	N/A	N/A	04/19/22	04/21/22	0	0	0	0	0	0	0

Lab No.	Wear Metals									Contaminant Metals			
	Iron ppm	Lead ppm	Copper ppm	Tin ppm	Alum ppm	Chrom ppm	Nickel ppm	Silver ppm	Titan ppm	Silicon ppm	Boron ppm	Sodium ppm	Potass ppm
D1804	0	0	0	0	0	0	0	0	0	0	0	0	0
J1657	0	0	0	0	0	0	0	0	0	0	0	0	0
D1583	0	0	0	0	0	0	0	0	0	0	0	0	0
J1592	0	0	0	0	0	0	0	0	0	0	0	0	0
D1413	0	0	0	0	0	0	0	0	0	0	0	0	0
ALARM	10	10	10	15	10	5	5	5	3	30	20	20	30

Physical Properties					
Lab No.	TAN mg/g	VIS40 cSt	KF-H2O ppm	FDRS	FDRL
D1804	0.00	66.2	21		
J1657	0.00	65.8	18	2.1	2.8
D1583	0.00	67.7	16	3.3	7.6
J1592	0.00	67.5	17	1.9	2.5
D1413	0.00	66.5	17	1.2	1.5
ALARM	0.2	57.8-78.2	100	15	30

Analysis Comments	
Lab No.	Comments
D1804	• Machine and oil appears normal.





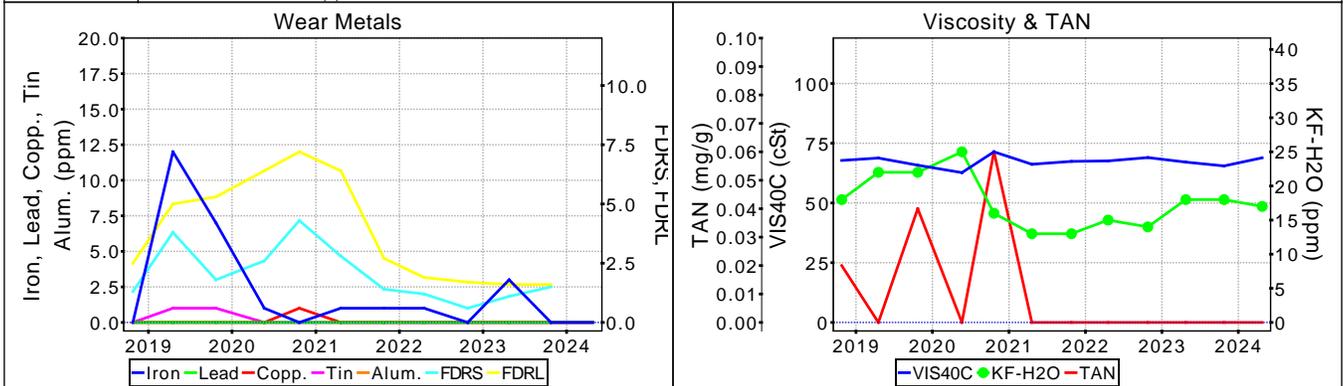
Unit	C-3	Point ID	750218
Location	HEB/SA-PRODUCE	Serial No	S-1614-MK4
Description	FES/GEA 400HP	Latest Oil	FES 1

Lab No.	Oil Use			Dates		Additive Metals							
	Exc.	Oil Usage	Oil Added	Unit Usage	Sample Date	Received Date	Phos ppm	Zinc ppm	Calc ppm	Barium ppm	Magn ppm	Moly ppm	Antim ppm
D1807		N/A	N/A	N/A	04/24/24	04/26/24	0	0	0	0	0	0	0
J1661		N/A	N/A	N/A	10/25/23	10/26/23	0	0	0	0	0	0	0
D1572		N/A	N/A	N/A	04/25/23	04/27/23	0	0	0	0	0	0	0
J1595		N/A	N/A	N/A	10/26/22	10/28/22	0	0	0	0	0	0	0
D1412		N/A	N/A	N/A	04/19/22	04/21/22	0	0	0	0	0	0	0

Lab No.	Wear Metals									Contaminant Metals			
	Iron ppm	Lead ppm	Copper ppm	Tin ppm	Alum ppm	Chrom ppm	Nickel ppm	Silver ppm	Titan ppm	Silicon ppm	Boron ppm	Sodium ppm	Potass ppm
D1807	0	0	0	0	0	0	0	0	0	0	0	0	0
J1661	0	0	0	0	0	0	0	0	0	0	0	0	0
D1572	3	0	0	0	0	0	0	0	0	0	0	0	0
J1595	0	0	0	0	0	0	0	0	0	0	0	0	0
D1412	1	0	0	0	0	0	0	0	0	0	0	0	0
ALARM	10	10	10	15	10	5	5	5	3	30	20	20	30

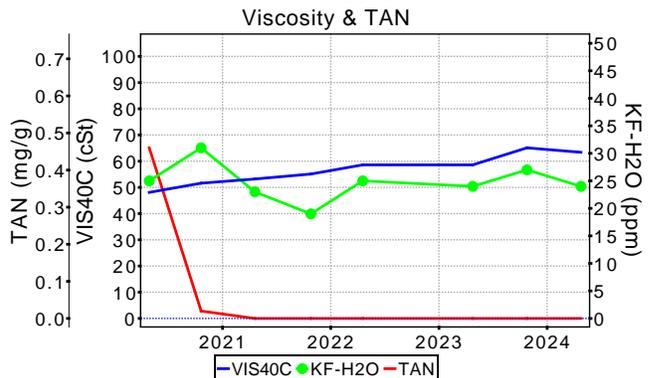
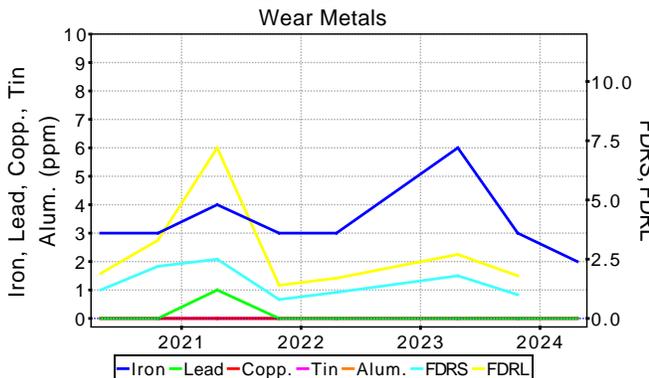
Physical Properties					
Lab No.	TAN mg/g	VIS40 cSt	KF-H2O ppm	FDRS	FDRL
D1807	0.00	68.9	17		
J1661	0.00	65.5	18	1.5	1.6
D1572	0.00	67.1	18	1.1	1.6
J1595	0.00	69.0	14	0.6	1.7
D1412	0.00	67.6	15	1.2	1.9
ALARM	0.2	57.8-78.2	100	15	30

Analysis Comments	
Lab No.	Comments
D1807	• Machine and oil appears normal.





Unit	C-4			Point ID	750461								
Location	HEB/SA-PRODUCE			Serial No									
Description	NEW MYCOM 250VMD			Latest Oil	MYCOM AB-68								
	Oil Use			Dates		Additive Metals							
Lab No.	Exc.	Oil Usage	Oil Added	Unit Usage	Sample Date	Received Date	Phos ppm	Zinc ppm	Calc ppm	Barium ppm	Magn ppm	Moly ppm	Antim ppm
D1806		N/A	N/A	N/A	04/24/24	04/26/24	0	0	0	0	0	0	0
J1659		N/A	N/A	N/A	10/25/23	10/26/23	0	0	0	0	0	0	0
D1581		N/A	N/A	N/A	04/25/23	04/27/23	0	0	0	0	0	0	0
D1414	**	N/A	N/A	N/A	04/19/22	04/21/22	0	0	0	0	0	0	0
J2010	**	N/A	N/A	N/A	10/26/21	10/28/21	0	1	0	0	3	0	0
	Wear Metals							Contaminant Metals					
Lab No.	Iron ppm	Lead ppm	Copper ppm	Tin ppm	Alum ppm	Chrom ppm	Nickel ppm	Silver ppm	Titan ppm	Silicon ppm	Boron ppm	Sodium ppm	Potass ppm
D1806	2	0	0	0	0	0	0	0	0	3	0	0	0
J1659	3	0	0	0	0	0	0	0	0	3	0	0	0
D1581	6	0	0	0	0	0	0	0	0	4	0	0	0
D1414	3	0	0	0	0	0	0	0	0	0	0	0	[95]
J2010	3	0	0	0	0	0	0	0	0	2	0	0	0
ALARM	10	10	10	15	10	5	5	5	3	30	20	20	30
	Physical Properties												
Lab No.	TAN mg/g	VIS40 cSt	KF-H2O ppm	FDRS	FDRL								
D1806	0.00	63.4	24										
J1659	0.00	65.1	27	1.0	1.8								
D1581	0.00	58.6	24	1.8	2.7								
D1414	0.00	58.6	25	1.1	1.7								
J2010	0.00	[55.1]	19	0.8	1.4								
ALARM	0.2	57.8-78.2	100	15	30								
	Analysis Comments												
Lab No.	Comments												
D1806	• Machine and oil appears normal.												





Unit	C-5	Point ID	750462
Location	HEB/SA-PRODUCE	Serial No	
Description	NEW MYCOM 250VMD	Latest Oil	MYCOM AB-68

Lab No.	Oil Use				Dates		Additive Metals						
	Exc.	Oil Usage	Oil Added	Unit Usage	Sample Date	Received Date	Phos ppm	Zinc ppm	Calc ppm	Barium ppm	Magn ppm	Moly ppm	Antim ppm
D1805		N/A	N/A	N/A	04/24/24	04/26/24	0	0	0	0	0	0	0
J1660		N/A	N/A	N/A	10/25/23	10/26/23	0	0	0	0	0	0	0
D1580		N/A	N/A	N/A	04/25/23	04/27/23	0	0	0	0	0	0	0
J1593		N/A	N/A	N/A	10/26/22	10/28/22	0	0	0	0	0	0	0
D1416	**	N/A	N/A	N/A	04/19/22	04/21/22	0	0	0	0	0	0	0

Lab No.	Wear Metals										Contaminant Metals			
	Iron ppm	Lead ppm	Copper ppm	Tin ppm	Alum ppm	Chrom ppm	Nickel ppm	Silver ppm	Titan ppm	Silicon ppm	Boron ppm	Sodium ppm	Potass ppm	
D1805	0	0	0	0	0	0	0	0	0	4	0	0	0	
J1660	2	0	0	2	0	0	0	0	0	4	0	0	0	
D1580	5	0	0	0	0	0	0	0	0	5	0	0	0	
J1593	3	0	0	0	0	0	0	0	0	4	0	0	0	
D1416	3	0	0	0	0	0	0	0	0	0	0	0	[60]	
ALARM	10	10	10	15	10	5	5	5	3	30	20	20	30	

Physical Properties					
Lab No.	TAN mg/g	VIS40 cSt	KF-H2O ppm	FDRS	FDRL
D1805	0.00	66.2	25		
J1660	0.00	63.0	23	0.7	1.7
D1580	0.00	64.8	23	1.1	1.7
J1593	0.00	61.1	13	0.8	1.0
D1416	0.00	58.6	25	1.2	1.3
ALARM	0.2	57.8-78.2	100	15	30

Analysis Comments	
Lab No.	Comments
D1805	• Machine and oil appears normal.

