

Account Information		Sample Information		Other Sample Information	
Lab Customer ID#:	230268	Lab No.:	202005270574	PO No.:	MIDLANTIC HARRISBURG PA
Company Name:	F&M Equipment LTD	Sample Tracking #:	S20190806005817	Work Order No.:	
Company Worksite:	Harrisburg, PA	Sample Date:	May 14, 2020	Reference No.:	8700038
Company Address:	6375 ALLENTOWN BLVD HARRISBURG, PA, 17111-5402	Received Date:	May 27, 2020	Filter Age:	0
		Completed Date:	May 28, 2020	Make Up Oil Amount:	0
Unit Information		Component Information		Fluid Information	
Unit ID:	VCED480DT00210499	Cpnt. Description:	RIGHT SWING GEAR	Fluid Manufacturer:	-
Unit Mfg:	Volvo	Cpnt. Mfg:	Volvo	Fluid Brand/Product:	UNKNOWN
Unit Model:	EC480DL	Cpnt. Model:	EC480DL	Fluid Grade:	SAE 90
Unit Serial #:	VCED480DT00210499	Cpnt. Serial #:			
Unit Worksite:		Cpnt. Type:	SWING GEAR		

Maintenance Recommendations for Lab No.: 202005270574

Evaluated By: Grant Dawson - Data Analyst

ANALYSIS INDICATES ABNORMAL CONDITIONS! NOTED ELEMENTS are generally associated with: Gear wear. Other test results are satisfactory. CHANGE OIL if not already performed. ADDITIONAL SAMPLING is REQUIRED to develop baseline & trend data for this component / application. Assure continued routine sampling.

SPECTROCHEMICAL ANALYSIS (PPM)																								
		Wear Metals										Contaminants			Additives									
LAB NO.	SAMPLE DRAWN	Iron	Chromium	Nickel	Aluminum	Lead	Copper	Tin	Silver	Titanium	Vanadium	Silicon	Sodium	Potassium	Boron	Molybdenum	Phosphorus	Zinc	Calcium	Barium	Magnesium	Antimony		
0574	05/14/2020	465 *	4	<1	1	<1	11	1	<0.1	<1	<1	8	<1	1	91	1	996	49	41	<1	11	1		

SAMPLE INFORMATION				FLUID PROPERTIES/CONTAMINANTS			
LAB NO.	SAMPLE DRAWN	UNIT	FLUID TIME	FILTER CHG.	LUBE SERVICE	Water	
0574	05/14/2020	2913		HR	No S	<0.1	D7279 Vls 100 °C 20.8

KEY: UoM - Unit of Measure Y - Yes N - No C - Changed S - Sampled > - Greater Than < - Less Than N/R - Not Reported (M) - Modified Method

Testing performed by Bureau Veritas, an ISO/IEC 17025:2017 accredited laboratory by ANAB. Certificate and scope of accreditation can be found at <https://bureauveritas.com/quality-competence/>. Not in scope of accreditation. For further details on outsourced testing, contact the laboratory directly. This test is run based on a higher test in this case. < values indicate that the trigger test was either not positive or the result was below the reportable limit. For a list of trigger tests refer to <http://www.bureauveritas.com/oil-analysis>. Notice: This analysis is intended as an aid in predicting mechanical wear. Test results, maintenance recommendations and accuracy are affected by customer provided samples, equipment identification, maintenance history and apply only to this sample as provided. No guarantee, expressed or implied, is made against failure of this piece of equipment or a component thereof. The ultimate responsibility for the maintenance of this piece of equipment and all its components is the responsibility of the equipment owner.



Bureau Veritas Oil Condition Monitoring -
3385 Martin Farm Road, Suwanee, GA - 30024
800-241-6315

Status: **ABNORMAL**

Account Information		Sample Information		Other Sample Information	
Lab Customer ID#:	230268	Lab No.:	202005270576	PO No.:	MELANTIC HARRISBURG PA
Company Name:	F&M Equipment LTD	Sample Tracking #:	S20190806005015	Work Order No.:	
Company Worksite:	Harrisburg, PA	Sample Date:	May 14, 2020	Reference No.:	8700040
Company Address:	6375 ALLENTOWN BLVD HARRISBURG, PA, 17111-5402	Received Date:	May 27, 2020	Filter Age:	0
		Completed Date:	May 28, 2020	Make Up Oil Amount:	0
Unit Information		Component Information		Fluid Information	
Unit ID:		Cpnt. Description:		Fluid Manufacturer:	
Unit Mfg:		Cpnt. Mfg:		Fluid Brand/Product:	
Unit Model:		Cpnt. Model:		Fluid Grade:	
Unit Serial #:		Cpnt. Serial #:			
Unit Worksite:		Cpnt. Type:			

Maintenance Recommendations for Lab No.: 202005270576

Evaluated By: Grant Dawson - Data Analyst

ANALYSIS INDICATES ABNORMAL COMPONENT & LUBRICANT CONDITION! Gear or bearing wear, SILICON (din) is causing abrasive wear, DRAIN and SERVICE the system if not performed at (or since) sampling. CHECK for the source of contaminant entry, RESAMPLE at 1/2 normal interval.

SPECTROCHEMICAL ANALYSIS PPM		Wear Metals										Contaminants				Additives						
LAB NO.	SAMPLE DRAWN	Iron	Chromium	Nickel	Aluminum	Lead	Copper	Tin	Silver	Titanium	Vanadium	Silicon	Sodium	Potassium	Boron	Molybdenum	Phosphorus	Zinc	Calcium	Barium	Magnesium	Antimony
0576	05/14/2020	979 *	7	4	76 *	<1	70 *	4	<0.1	5	<1	294 *	9	24	124	1	971	57	71	1	28	<1

SAMPLE INFORMATION				FLUID PROPERTIES/CONTAMINANTS			
LAB NO.	SAMPLE DRAWN	UNIT TIME	FLUID TIME	UOM	FILTER CHG.	LUBE SERVICE	
0576	05/14/2020	2913		HR	No	S	
				Water			
				<0.1			
				D7279 Vls			
				100 °C			
				13.7			

KEY: UoM - Unit of Measure Y - Yes N - No C - Changed S - Sampled > - Greater Than < - Less Than NIR - Not Reported (M) - Modified Method

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