WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Machine Id

LIEBHERR 42

Component Diesel Engine

SAF 5W30 (--- GAL

SAE 5W30 ( GAL)					.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		wc	WC0685974	
	Sample Date		Client Info		25 Feb 2024	09 Oct 2023	
	Machine Age	hrs	Client Info		0	9021	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	Changed	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185(m)	>100	6	8	
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>5	<1	<1	
	Nickel	ppm	ASTM D5185(m)	>5	<1	0	
	Titanium	ppm	ASTM D5185(m)		0	0	
	Silver	ppm	ASTM D5185(m)	>3	<1	<1	
	Aluminum	ppm	ASTM D5185(m)	>15	2	2	
	Lead	ppm	ASTM D5185(m)	>30	0	<1	
	Copper	ppm	ASTM D5185(m)	>125	2	4	
	Tin	ppm	ASTM D5185(m)	>5	0	<1	
	Vanadium	ppm	ASTM D5185(m)		0	0	
CONTAMINATION	O'''		40TM D5405( )		_		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)		5	5	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)		<1	0	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol Soot %	%	ASTM D7844*	>3	NEG 0	NEG 0	
	Nitration	Abs/cm	ASTM D7644  ASTM D7624*	>20	10.2	11.1	
	Sulfation	Abs/.1mm			20.5	21.3	
	Emulsified Water		Visual*	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		4	4	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)		29	26	
	Barium	ppm	ASTM D5185(m)		0	<1	
	Molybdenum	ppm	ASTM D5185(m)		59	61	
	Manganese	ppm	ASTM D5185(m)		0	0	
	Magnesium	ppm	ASTM D5185(m)		1080	1093	
	Calcium	ppm	ASTM D5185(m)		853	863	
	Phosphorus	ppm	ASTM D5185(m)		1026	1010	
	Zinc	ppm	ASTM D5185(m)		1181	1214	
	Sulfur	ppm	ASTM D5185(m)		2984	2828	
	Oxidation	Abs/.1mm	ASTM D7414*	>25	19.4	20.1	
	Visc @ 100°C	cSt	ASTM D7279(m)		10.8	10.6	
	V130 @ 100 0	001	AUTINI DIZIO(III)	11.0	10.0	10.0	





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC Lab Number : 02617987 Unique Number : 5735097 Test Package : MOB 1

Received **Tested** Diagnosed

: 26 Feb 2024 : 26 Feb 2024

: 26 Feb 2024 - Kevin Marson

CA L8E 5L1 Contact: Adam adam@desantiscrane.com

**DeSantis Crane** 

Stoney Creek, ON

294 Fifty Rd

T:

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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