WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

Machine Id GROVE 31

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0685976		
	Sample Date		Client Info		02 Oct 2023		
	Machine Age	hrs	Client Info		9417		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
VEAR	Iron	nnm	ASTM D5185(m)	<100	8		
VEAN	Chromium	ppm	ASTM D5185(m)		<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185(m)		<1		
	Titanium	ppm	ASTM D5185(m)	>4	0		
	Silver	ppm	ASTM D5185(m)	>3	0		
	Aluminum	ppm	ASTM D5185(m)		1		
	Lead	ppm	ASTM D5185(m)	>40	1		
	Copper	ppm	ASTM D5185(m)	>330	<1		
	Tin	ppm	ASTM D5185(m)	>15	0		
	Vanadium	ppm	ASTM D5185(m)	710	0		
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	2		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)	>20	<1		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol Soot %	%	WC Method	. 0	NEG 0		
	Nitration	Abs/cm	ASTM D7844* ASTM D7624*		6.8		
	Sulfation	Abs/.1mm	ASTM D7624 ASTM D7415*	>20	18.3		
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	NORML		
	Odor	scalar	Visual*	NORML	NORML		
	Emulsified Water	scalar	Visual*	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		3		
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)	250	1		
	Barium	ppm	ASTM D5185(m)	10	0		
	Molybdenum	ppm	, ,	100	60		
	Manganese	ppm	ASTM D5185(m)	. = 6	0		
	Magnesium	ppm	ASTM D5185(m)		1004		
	Calcium	ppm	ASTM D5185(m)	3000	1066		
	Phosphorus	ppm	ASTM D5185(m)		1051		
	Zinc	ppm	ASTM D5185(m)	1350	1220		
	Sulfur Oxidation	ppm	ASTM D5185(m)	4250	2791		
	LIVIDATION	Abs/.1mm	ASTM D7414*	>25	14.9		





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Lab Number : 02617954 Unique Number : 5735064

: WC0685976

Received : 26 Feb 2024 **Tested** : 26 Feb 2024 Diagnosed

: 26 Feb 2024 - Wes Davis

Test Package : MOB 1 (Additional Tests: Visual)

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.

DeSantis Crane 294 Fifty Rd Stoney Creek, ON CA L8E 5L1 Contact: Jon Lawrence jon@desantiscrane.com T: (905)512-3569

F: