		WEAR				NORMAL	
		CONTAMINATION				NORMAL NORMAL NORMAL	
OIL ANALYSIS REPORT			FLUID CONDITION				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
HEOOMIMENDATION	Sample Number	00111	Client Info	Ennorton	LW0009465		LW0006449
Resample at the next service interval to monitor.	Sample Date		Client Info		27 Jun 2024	19 Sep 2023	22 Dec 2022
	Machine Age	hrs	Client Info		492776	492776	492776
	Oil Age	hrs	Client Info		492776	492776	502
	Filter Age	hrs	Client Info		0	0	502
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>120	19	9	19
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	0	<1
	Nickel	ppm	ASTM D5185m		<1	0	<1
	Titanium	ppm	ASTM D5185m		14	0	<1
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m		3	1	<1
	Lead	ppm	ASTM D5185m		4	0	5
	Copper	ppm	ASTM D5185m		2	1	2
	Tin	ppm	ASTM D5185m		- <1	0	<1
	Vanadium	ppm	ASTM D5185m	210	<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	 、25	3	5	3
CONTAMINATION	Potassium	ppm	ASTM D5185m		2	15	1
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		- <1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>4	1.9	1	1.5
	Nitration	Abs/cm	*ASTM D7624	>20	9.1	6.3	9.3
	Sulfation	Abs/.1mm	*ASTM D7415		22.3	21.5	23.1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	5	2
	Boron	ppm	ASTM D5185m		14	15	4
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm	ASTM D5185m		<1	12	0
oil. The condition of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5185m		49	55	54
	Manganese	nnm	ASTM D5185m		-1	0	<1

Manganese

Magnesium

Phosphorus

Calcium

Zinc

Sulfur

Oxidation

Visc @ 100°C cSt

ASTM D5185m

ASTM D5185m

ASTM D5185m

ASTM D5185m

Abs/.1mm *ASTM D7414 >25

ASTM D445 15.6

ppm ASTM D5185m

ppm ASTM D5185m

ppm

ppm

ppm

ppm

Base Number (BN) mg KOH/g ASTM D2896 9.8

0

838

1257

960

1128

3304

16.9

9.8

12.9

<1

802

1082

843

1089

2399

17.2

7.5

13.6

<1

825

1079

942

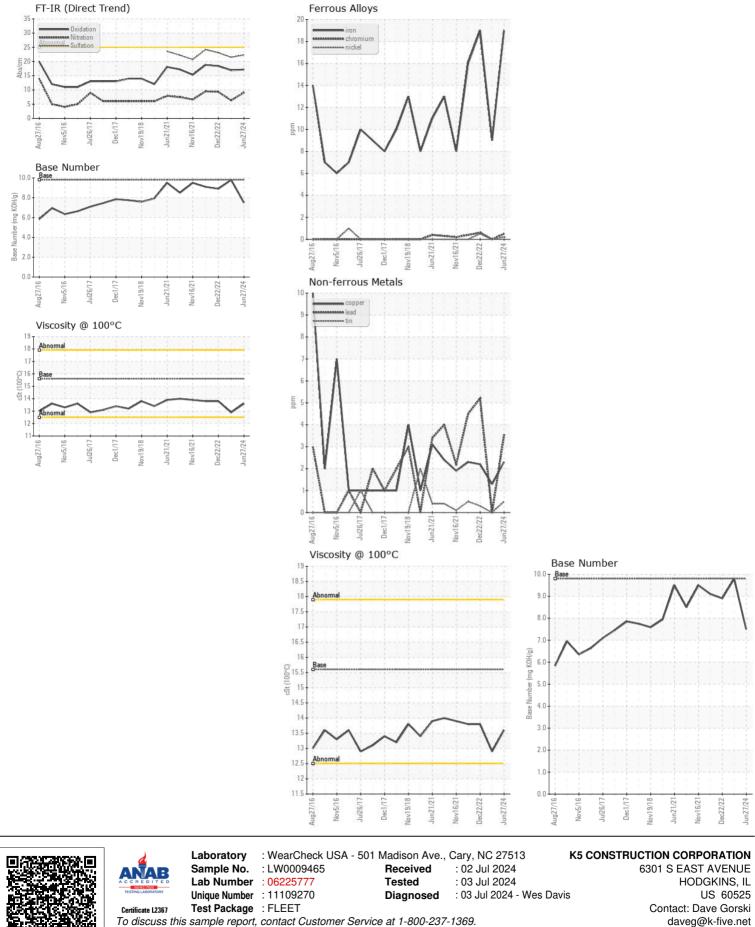
1149

18.4

8.9

13.8

3133



* - 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)

Submitted By: NOELLE TERRAULT Page 2 of 2

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