			WEAR			NORMAL	
			CONTAMINATION			NORMAL	
OIL ANALYSIS REPORT			FLUID CONDITION			NORMAL	
Area K5 CONSTRUCTION COR Machine Id 1718 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W		- HC	DDGKII	NS IL	-		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		LW0008900	LW0007509	5
	Sample Date		Client Info		05 Feb 2024	24 Jul 2023	23 May 2023
	Machine Age	hrs	Client Info		2742	2382	1831
	Oil Age	hrs	Client Info		2191	258	580
	Filter Age	hrs	Client Info		0	258	580
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Changed	Not Changd	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		19	9	19
	Chromium	ppm	ASTM D5185m		<1	<1	1
	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m		1	<1	0
	Lead	ppm	ASTM D5185m		0	0	2
	Copper Tin	ppm	ASTM D5185m ASTM D5185m		3 0	<1 0	1
	Vanadium	ppm	ASTM D5185m	>15	0	0	<1
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	< I NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	3	5
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		5	<1	4
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method	-	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		1.1	0.5	0.7
	Nitration	Abs/cm	*ASTM D7624		7.8	6.2	7.0
	Sulfation	Abs/.1mm	*ASTM D7415		19.8	18.8	19.1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris Sand/Dirt	scalar	*Visual *Visual	NONE NONE	NONE NONE	NONE NONE	NONE NONE
	Appearance	scalar scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
			100001	20.L			NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	<1	1	1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m	250	0	2	3
	Barium	ppm		10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	63	60	57
	Manganese	ppm	ASTM D5185m		0	<1	1
	Magnesium	ppm	ASTM D5185m		956	997	1037
	Calcium	ppm	ASTM D5185m		1109	1117	1320
	Phosphorus	ppm	ASTM D5185m		980	1066	1055
	Zinc	ppm	ASTM D5185m		1214	1292	1381
	Sulfur	ppm	ASTM D5185m		3012	3770	3992
	()vidation	Abc/1mm	*AQTM D7/1/	> 25	1/17	1/10	1/1 1

Oxidation Abs/.1mm *ASTM D7414 >25

Base Number (BN) mg KOH/g ASTM D2896 8.5

Visc @ 100°C cSt ASTM D445 14.4

14.0

14.6

14.7

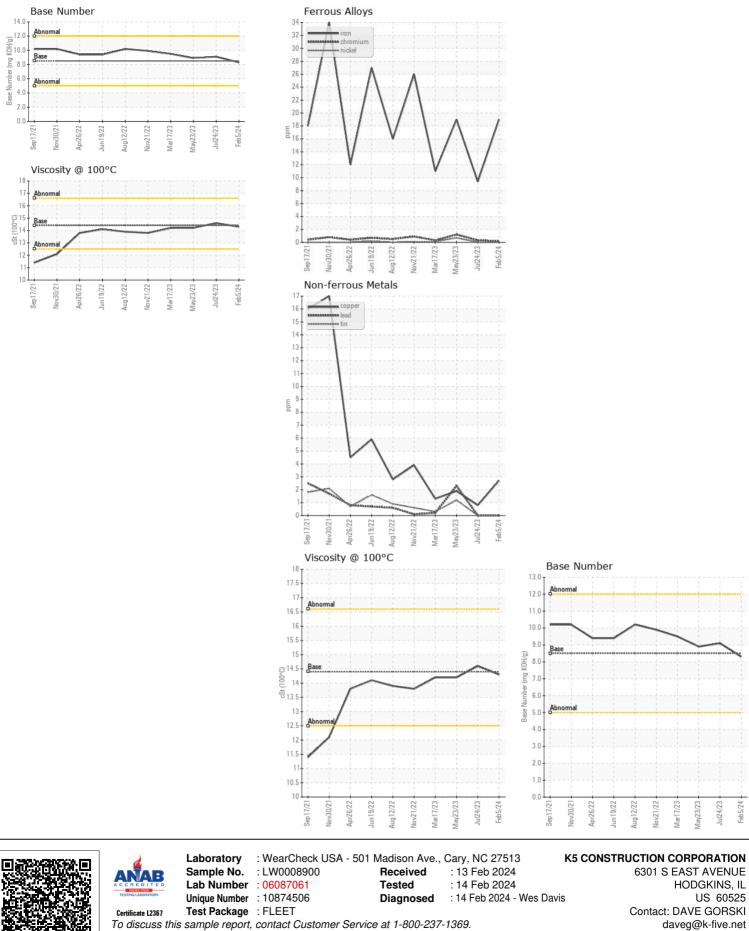
8.3

14.3

14.1

14.2

9.1 8.9



* - 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)

Т:

F: