			WEAR			NORM	AL
		CONTAMINATION			NORMAL		
			FLUID CONDITION			NORMAL	
Area							
K5 CONSTRUCTION CORPORATION - HODGKINS IL 4613 Component Diesel Engine							
	0 (12 hrs)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number Sample Date		Client Info Client Info		PCA0122071 19 Apr 2024	06 Sep 2023	LW0007144 05 Jul 2023
	Machine Age	hrs	Client Info		34018	33401	32876
	Oil Age	hrs	Client Info		617	525	596
	Filter Age	hrs	Client Info		617	525	596
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron		ASTM D5185m	. 100	16	17	21
WEAR	Iron Chromium	ppm ppm	ASTM D5185m		16 <1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		8	<1	0
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m	>25	1	1	0
	Lead	ppm	ASTM D5185m	>40	0	1	1
	Copper	ppm	ASTM D5185m	>330	5	5	6
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m	NONE	0	0	0
	White Metal Yellow Metal	scalar	*Visual *Visual	NONE	NONE NONE	NONE NONE	NONE
	fellow wietai	scalar	VISUAI	NONE		NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	2	2	2
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	3	4
There is no indication of any containination in the oil.	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol Soot %	%	WC Method *ASTM D7844	. 0	NEG 0.3	NEG 0.3	NEG 0.3
	Nitration	Abs/cm	*ASTM D7644		6.7	6.2	6.8
	Sulfation	Abs/.1mm			19.5	19.5	20.5
	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	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	<1	0
	Boron	ppm	ASTM D5185m		11	4	0
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		54	57	60
	Manganese	ppm	ASTM D5185m		<1	1	<1
	Magnesium	ppm	ASTM D5185m		936	985	887
	Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m		1114 1039	1183 1071	1099 1007
	Zinc	ppm	ASTM D5185m		1261	1359	1180
	Sulfur	ppm	ASTM D5185m		3451	4048	2980
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	15.7	16.6
	Raco Number (RNI)	ma KOLVa	ACTM DOOC	0.0	9.5	0.2	0.2

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

ASTM D445 15.6

Visc @ 100°C cSt

8.3

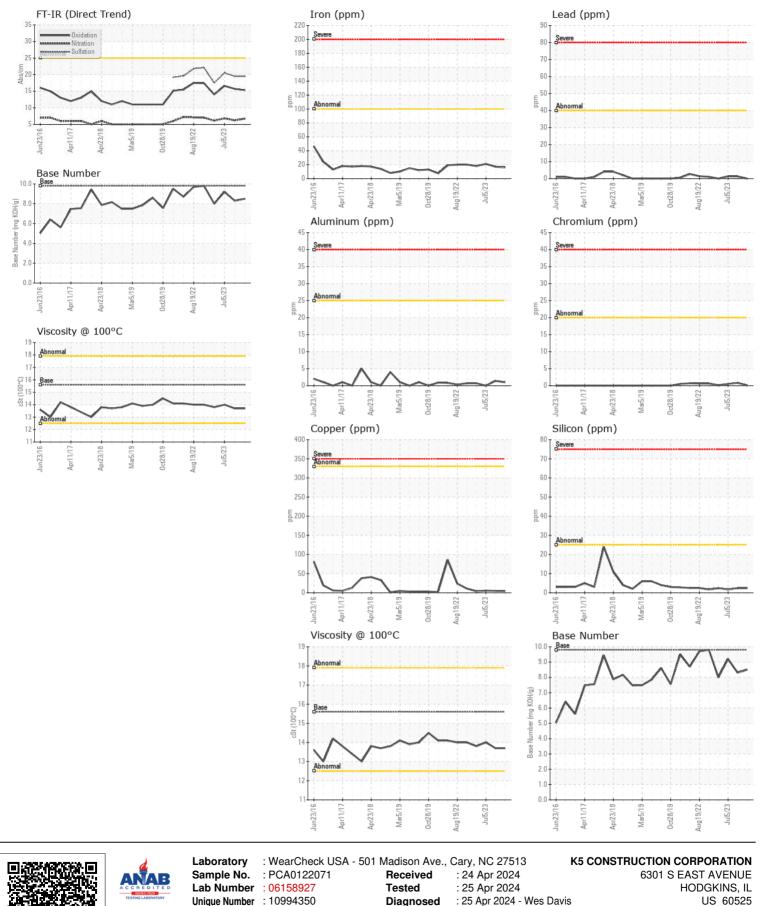
13.7

9.2

14.0

8.5

13.7



 Unique Number
 : 10994350
 Diagnosed
 : 25 Apr 2024 - Wes Davis

 Certificate 12367
 Test Package
 : MOB 1 (Additional Tests: TBN )

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 \* - 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)

Contact: Dave Gorski

daveg@k-five.net

T: (630)257-5600

F: