WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ATTENTION

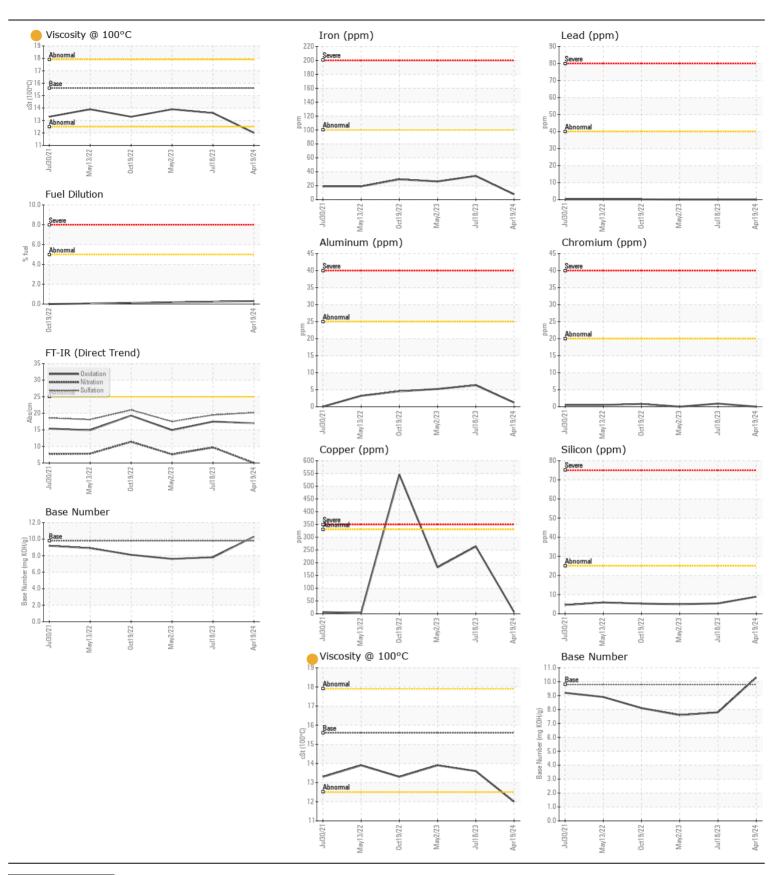
Area

K5 CONSTRUCTION CORPORATION - HODGKINS IL

1861

Component Diesel Engine

LEAHY WOLF PREMIUM 15W40) (9 LTR)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number	OOW	Client Info	LITTIU/ADTI	PCA0122002	-	LW0007020
	Sample Date		Client Info		19 Apr 2024	18 Jul 2023	02 May 2023
	Machine Age	hrs	Client Info		1892	1660	1360
	Oil Age	hrs	Client Info		232	1426	234
	Filter Age	hrs	Client Info		232	1426	234
	Oil Changed		Client Info		Changed	Changed	Not Changd
	Filter Changed		Client Info		Changed	Changed	Not Changd
	Sample Status				ATTENTION	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	8	34	26
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0	<1	0
	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m	>2	0	<1	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	1	6	5
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	7	264	182
	Tin	ppm	ASTM D5185m	>15	0	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	>25	9	5	5
CONTAIMINATION	Potassium	ppm	ASTM D5185m		ء <1	0	<1
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.	Fuel	%	ASTM D316311		0.3	<1.0	<1.0
	Water	/0	WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 O.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	5.0	9.7	7.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	19.5	17.5
	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		2	2	0
	Boron	ppm	ASTM D5185m		48	2	<1
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		0	<1	0
	Molybdenum	ppm	ASTM D5185m		44	61	54
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		672	1011	941
	Calcium	ppm	ASTM D5185m		1639	1210	1085
	Phosphorus	ppm	ASTM D5185m		1002	1058	972
	Zinc	ppm	ASTM D5185m		1254	1357	1249
	Sulfur	ppm	ASTM D5185m		3938	3222	2997
	Oxidation	Abs/.1mm	*ASTM D7414		17.0	17.5	14.9
	Base Number (BN)				10.3	7.8	7.6
	Visc @ 100°C	cSt	ASTM D445	15.6	12.0	13.6	13.9





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0122002 Lab Number : 06160073

Unique Number: 10995496

Tested Diagnosed Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

Received

: 25 Apr 2024

: 29 Apr 2024

: 29 Apr 2024 - Sean Felton

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)

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