MOB I LUBE 360™ OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
K5 CONSTRUCTION CORPORATION - HODGKINS IL

Machine Id
4290
Component
Diesel Engine
Fluid
LEAHY WOLF PREMIUM 15W40 (9 hrs)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

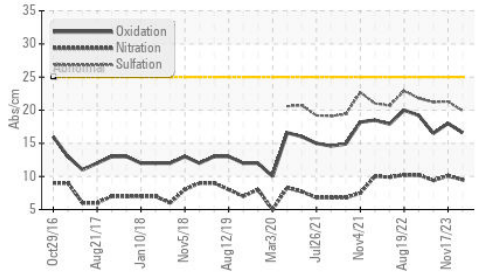
There is no indication of any contamination in the oil.

FLUID CONDITION

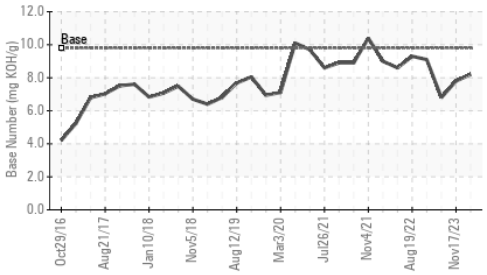
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0122038	LW0008428	LW0007695
Sample Date		Client Info		19 Apr 2024	17 Nov 2023	23 Aug 2023
Machine Age	hrs	Client Info		24926	24926	24377
Oil Age	hrs	Client Info		24926	549	1048
Filter Age	hrs	Client Info		0	549	1048
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
Iron	ppm	ASTM D5185m	>120	13	17	20
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	12	20
Lead	ppm	ASTM D5185m	>40	<1	3	2
Copper	ppm	ASTM D5185m	>330	<1	2	2
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	4	6	7
Potassium	ppm	ASTM D5185m	>20	10	31	52
Fuel		WC Method	>3.0	<1.0	<1.0	1.2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>4	0.6	1	1
Nitration	Abs/cm	*ASTM D7624	>20	9.5	10.1	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	21.3	21.2
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
Sodium	ppm	ASTM D5185m		1	6	3
Boron	ppm	ASTM D5185m		0	2	22
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		62	61	49
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		1089	886	445
Calcium	ppm	ASTM D5185m		1189	1251	1939
Phosphorus	ppm	ASTM D5185m		1149	1116	1072
Zinc	ppm	ASTM D5185m		1386	1271	1267
Sulfur	ppm	ASTM D5185m		3929	2684	4098
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	18.0	16.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	7.8	6.8
Visc @ 100°C	cSt	ASTM D445	15.6	13.9	13.5	12.0

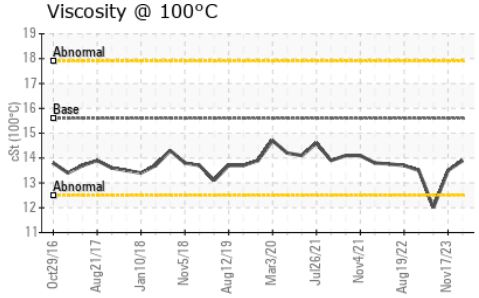
FT-IR (Direct Trend)



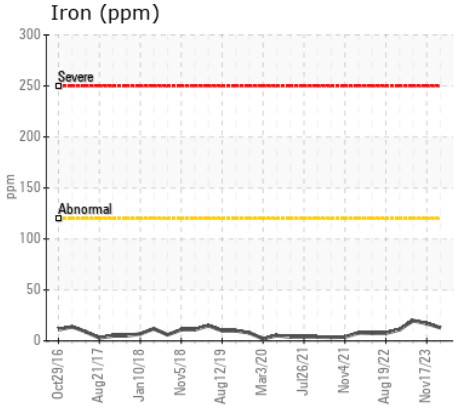
Base Number



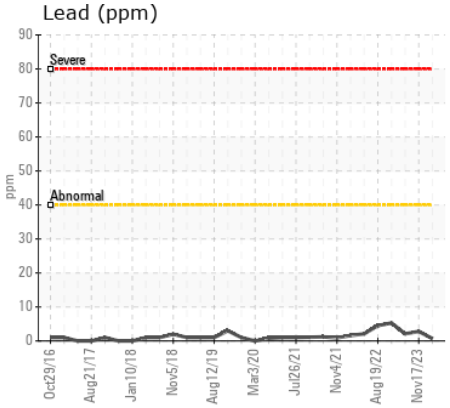
Viscosity @ 100°C



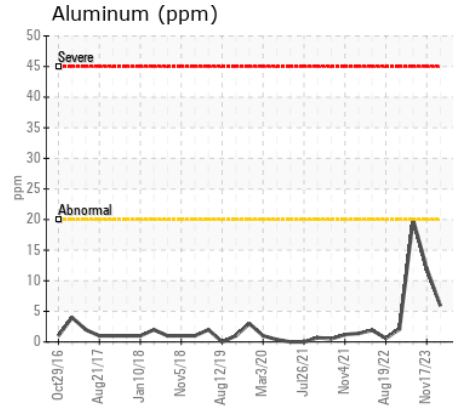
Iron (ppm)



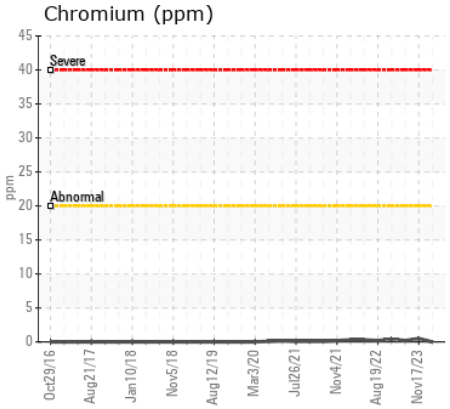
Lead (ppm)



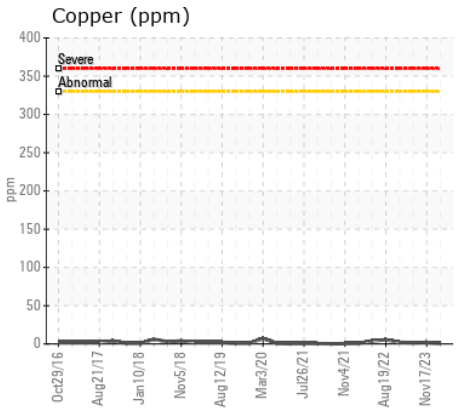
Aluminum (ppm)



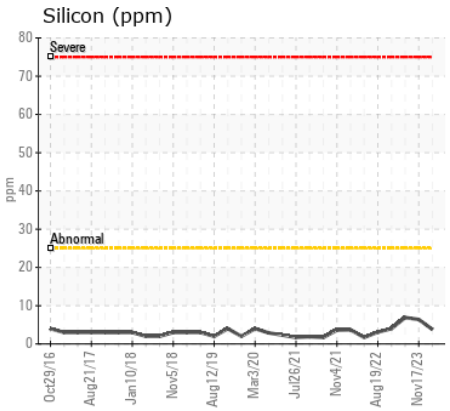
Chromium (ppm)



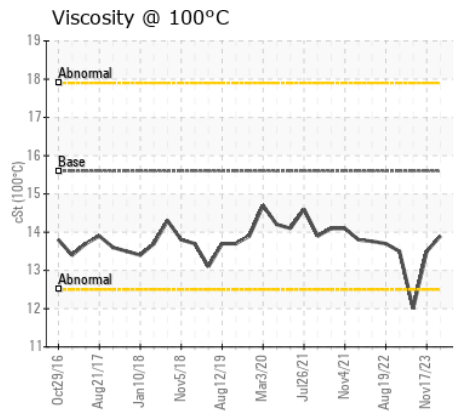
Copper (ppm)



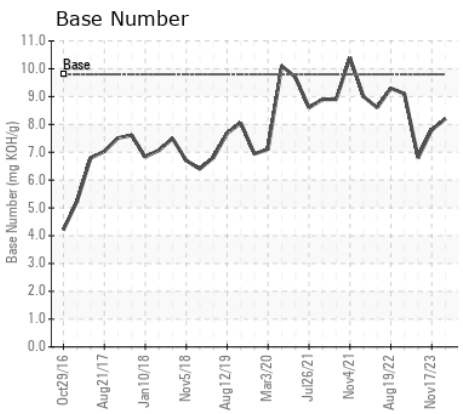
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0122038
Lab Number : 06160070
Unique Number : 10995493
Test Package : MOB 1 (Additional Tests: TBN)

Received : 25 Apr 2024
Tested : 25 Apr 2024
Diagnosed : 25 Apr 2024 - Wes Davis

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)

K5 CONSTRUCTION CORPORATION
6301 S EAST AVENUE
HODGKINS, IL
US 60525
Contact: Dave Gorski
daveg@k-five.net
T: (630)257-5600
F: