MOB II LUBE 360™ OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
KOMATSU HD465-5 60 (S/N 4963)
Component
Diesel Engine
Fluid
FLEETLINE SUPERFLEET XHD 15W40 (14 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

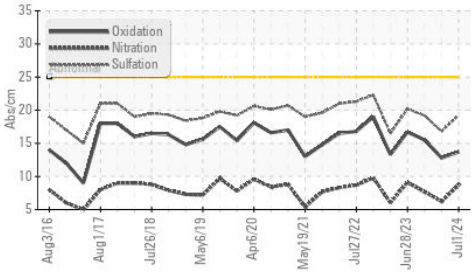
There is no indication of any contamination in the oil.

FLUID CONDITION

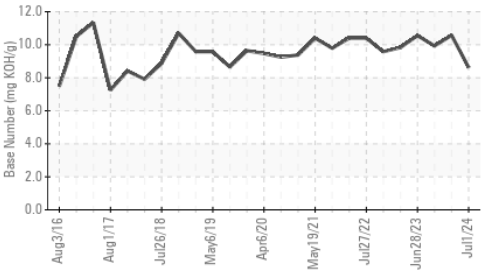
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0110133	LP0000878	LP0000858
Sample Date		Client Info		01 Jul 2024	26 Feb 2024	15 Dec 2023
Machine Age	hrs	Client Info		31680	31138	31138
Oil Age	hrs	Client Info		466	75	383
Filter Age	hrs	Client Info		466	55	383
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	12	3	11
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	<1	2
Lead	ppm	ASTM D5185m	>40	2	1	0
Copper	ppm	ASTM D5185m	>330	2	0	<1
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	3	2	4
Potassium	ppm	ASTM D5185m	>20	1	<1	2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.6	0.1	0.4
Nitration	Abs/cm	*ASTM D7624	>20	8.7	6.2	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	16.8	19.2
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	1	<1
Boron	ppm	ASTM D5185m		13	23	14
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		34	55	62
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		359	656	879
Calcium	ppm	ASTM D5185m		1895	1457	1180
Phosphorus	ppm	ASTM D5185m		953	1053	943
Zinc	ppm	ASTM D5185m		1194	1223	1242
Sulfur	ppm	ASTM D5185m		3242	3489	3183
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	12.8	15.5
Base Number (BN)	mg KOH/g	ASTM D2896		8.63	10.57	9.93
Visc @ 100°C	cSt	ASTM D445	15.6	13.1	13.4	13.4

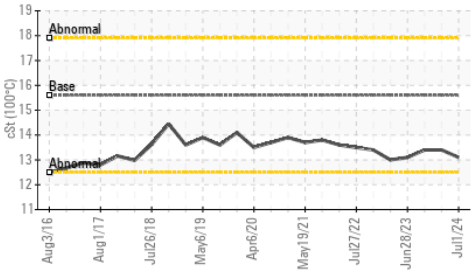
FT-IR (Direct Trend)



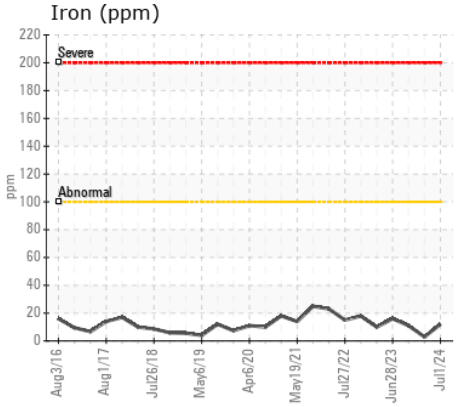
Base Number



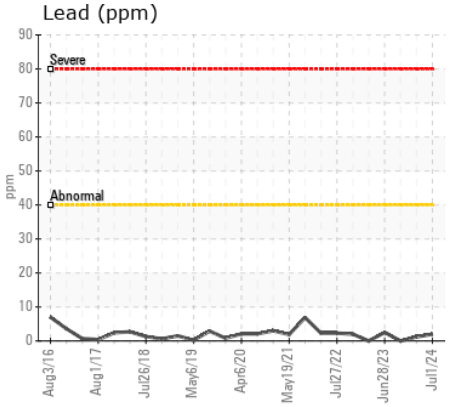
Viscosity @ 100°C



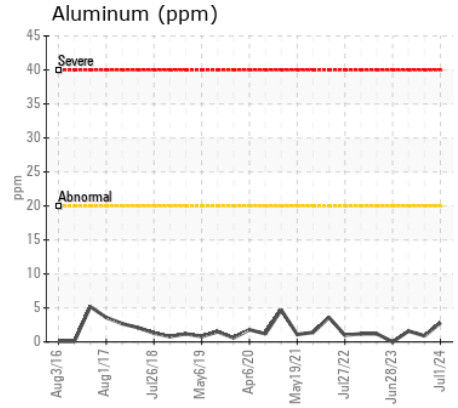
Iron (ppm)



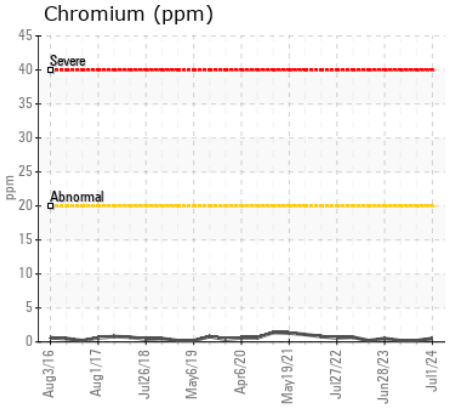
Lead (ppm)



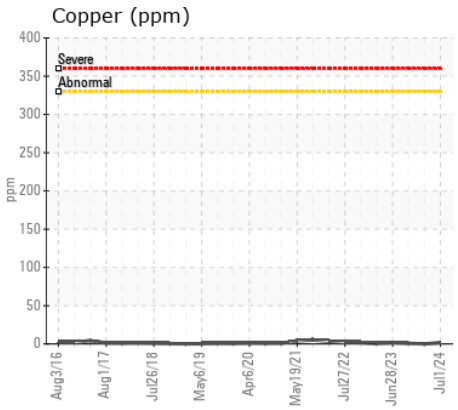
Aluminum (ppm)



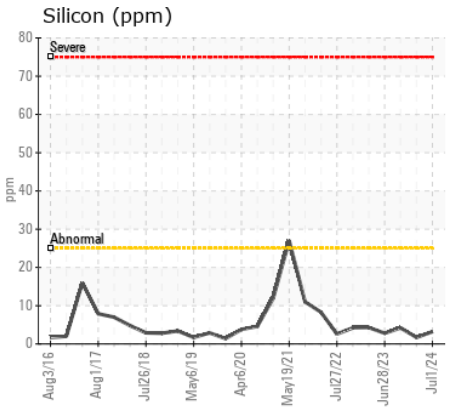
Chromium (ppm)



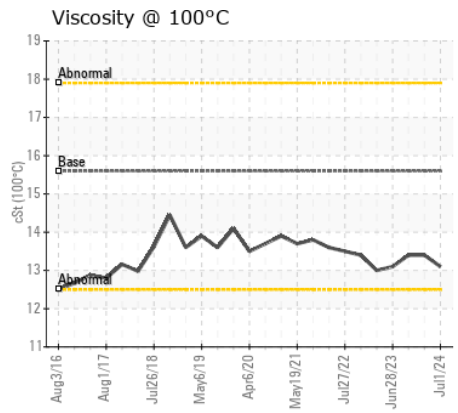
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



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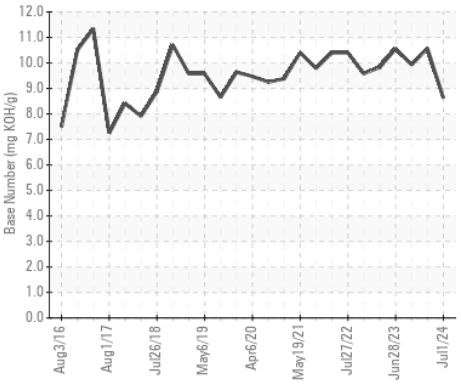

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0110133
Lab Number : 06237061
Unique Number : 11125895
Test Package : MOB 2

Received : 15 Jul 2024
Tested : 17 Jul 2024
Diagnosed : 17 Jul 2024 - Wes Davis

Certificate L2367

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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