OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
LINKBELT 613
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

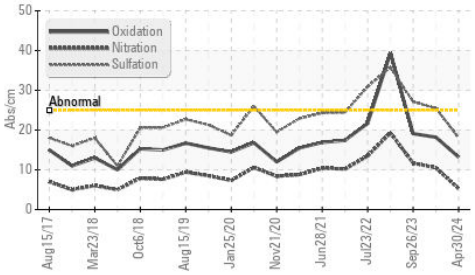
There is no indication of any contamination in the oil.

FLUID CONDITION

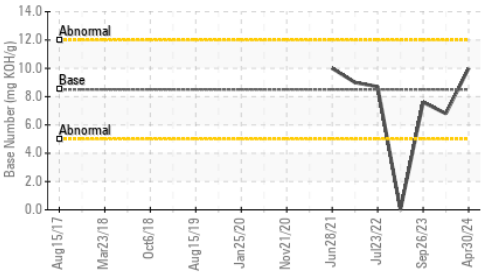
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0745792	WC0745781	WC0745774
Sample Date		Client Info		30 Apr 2024	02 Feb 2024	26 Sep 2023
Machine Age	hrs	Client Info		154	12587	11946
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	13	15	23
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	5	7
Lead	ppm	ASTM D5185m	>40	2	3	6
Copper	ppm	ASTM D5185m	>330	10	3	3
Tin	ppm	ASTM D5185m	>15	7	1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	20	6	5
Potassium	ppm	ASTM D5185m	>20	5	2	1
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	0.2	2.9	▲ 3.5
Nitration	Abs/cm	*ASTM D7624	>20	5.3	10.5	11.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	25.5	27.1
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	>158	0	0	2
Boron	ppm	ASTM D5185m	250	8	8	4
Barium	ppm	ASTM D5185m	10	3	13	0
Molybdenum	ppm	ASTM D5185m	100	61	71	66
Manganese	ppm	ASTM D5185m		5	<1	<1
Magnesium	ppm	ASTM D5185m	450	865	1032	1070
Calcium	ppm	ASTM D5185m	3000	1309	1262	1234
Phosphorus	ppm	ASTM D5185m	1150	1139	1081	1070
Zinc	ppm	ASTM D5185m	1350	1222	1397	1401
Sulfur	ppm	ASTM D5185m	4250	3638	3539	2887
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	18.2	19.1
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	10.0	6.8	7.6
Visc @ 100°C	cSt	ASTM D445	14.4	13.5	16.3	▲ 16.8

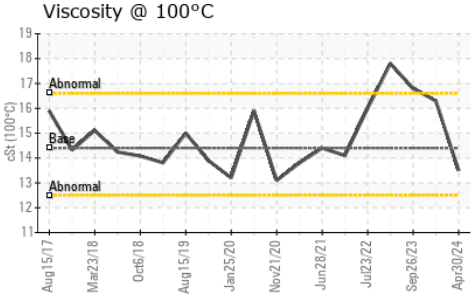
FT-IR (Direct Trend)



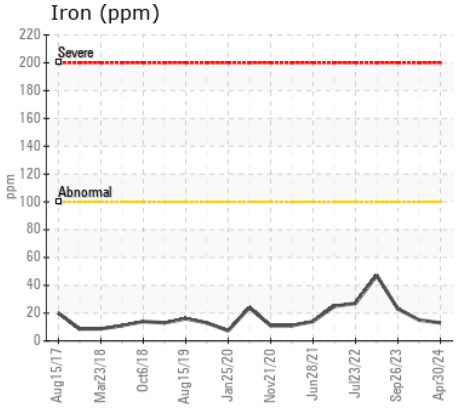
Base Number



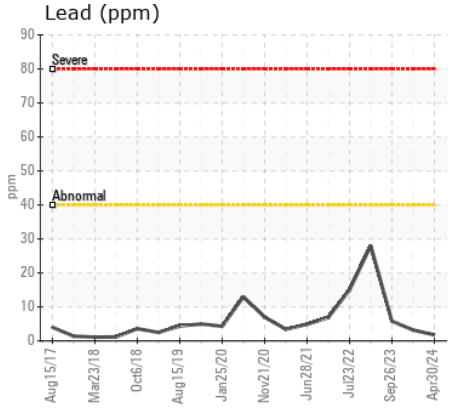
Viscosity @ 100°C



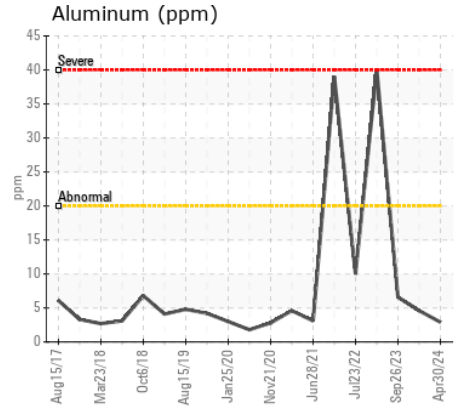
Iron (ppm)



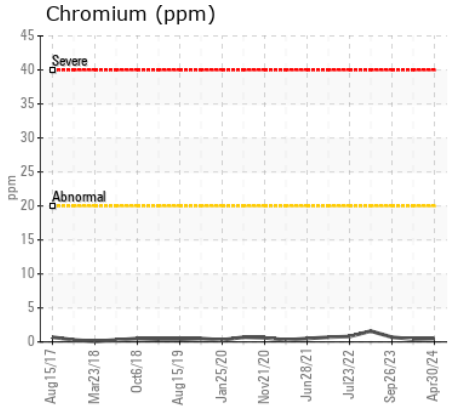
Lead (ppm)



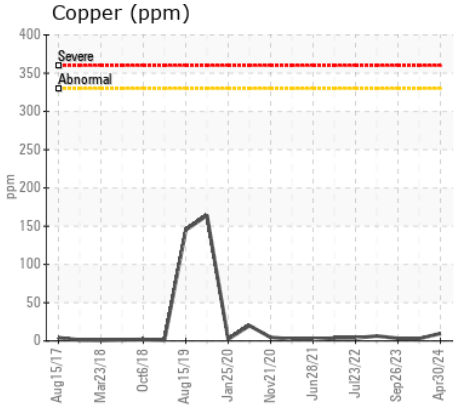
Aluminum (ppm)



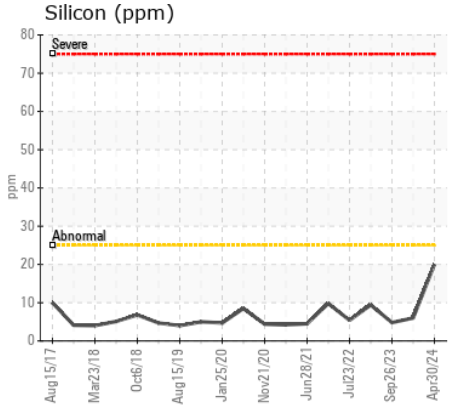
Chromium (ppm)



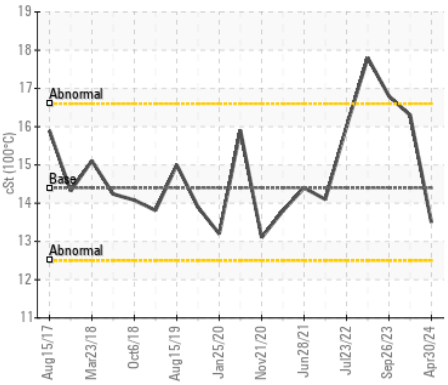
Copper (ppm)



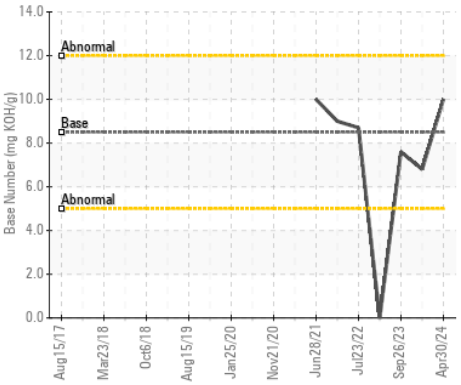
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0745792 **Received** : 10 May 2024
Lab Number : 06176583 **Tested** : 13 May 2024
Unique Number : 11022636 **Diagnosed** : 13 May 2024 - Wes Davis
Test Package : MOBCE (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)

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