MOB I WEAR CHECK

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[671001]
Machine Id
VOLVO WIL 73-0108
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER 10W30 (34 LTR)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

WEAR

Nickel ppm levels are abnormal. Exhaust valve wear is indicated.

CONTAMINATION

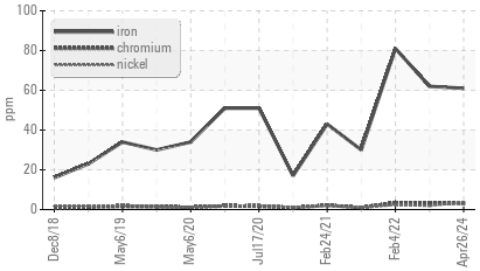
There is no indication of any contamination in the oil.

FLUID CONDITION

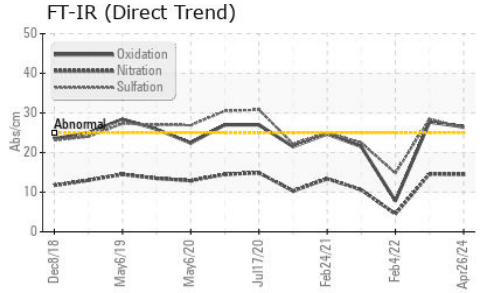
The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0773421	WC0658832	WC0658823
Sample Date		Client Info		26 Apr 2024	15 Dec 2022	04 Feb 2022
Machine Age	mls	Client Info		1061265	418000	366000
Oil Age	mls	Client Info		43000	50000	57000
Filter Age	mls	Client Info		43000	50000	57000
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>100	61	62	81
Chromium	ppm	ASTM D5185(m)	>20	3	3	4
Nickel	ppm	ASTM D5185(m)	>2	▲ 4	2	2
Titanium	ppm	ASTM D5185(m)		<1	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	17	17	17
Lead	ppm	ASTM D5185(m)	>40	5	11	15
Copper	ppm	ASTM D5185(m)	>330	7	3	3
Tin	ppm	ASTM D5185(m)	>15	2	3	4
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	6	7	9
Potassium	ppm	ASTM D5185(m)	>20	3	5	8
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	ASTM D7844*	>3	0.8	1	0
Nitration	Abs/cm	ASTM D7624*	>20	14.5	14.6	4.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.2	28.5	14.8
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		6	11	14
Boron	ppm	ASTM D5185(m)		7	7	7
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		40	39	38
Manganese	ppm	ASTM D5185(m)		1	1	1
Magnesium	ppm	ASTM D5185(m)		491	468	474
Calcium	ppm	ASTM D5185(m)		1595	1745	1615
Phosphorus	ppm	ASTM D5185(m)		658	756	728
Zinc	ppm	ASTM D5185(m)		809	832	839
Sulfur	ppm	ASTM D5185(m)		1852	1979	1997
Oxidation	Abs/.1mm	ASTM D7414*	>25	26.5	27.7	7.8
Visc @ 100°C	cSt	ASTM D7279(m)	11.9	10.6	10.8	10.7

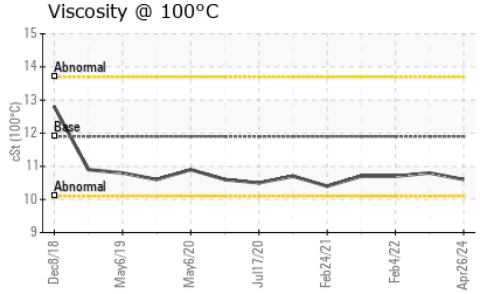
Ferrous Alloys



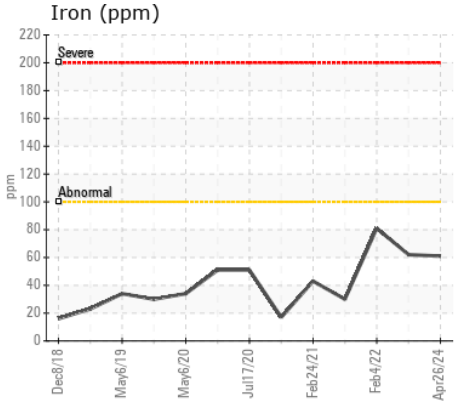
FT-IR (Direct Trend)



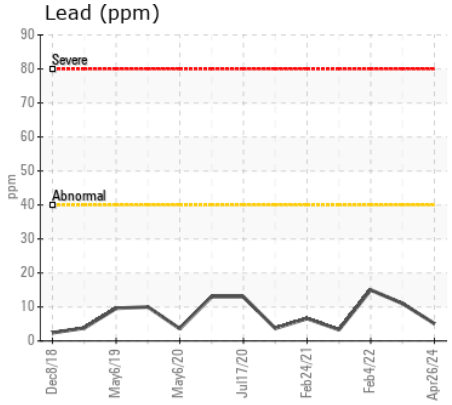
Viscosity @ 100°C



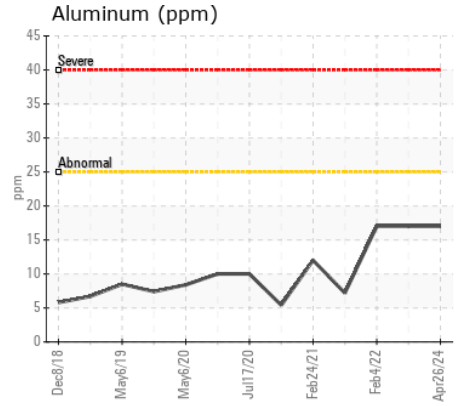
Iron (ppm)



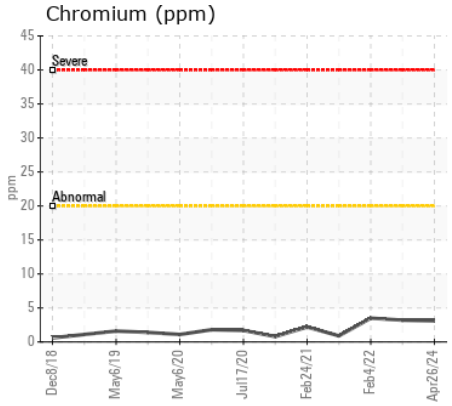
Lead (ppm)



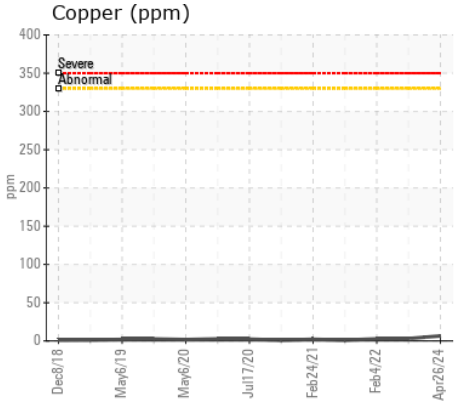
Aluminum (ppm)



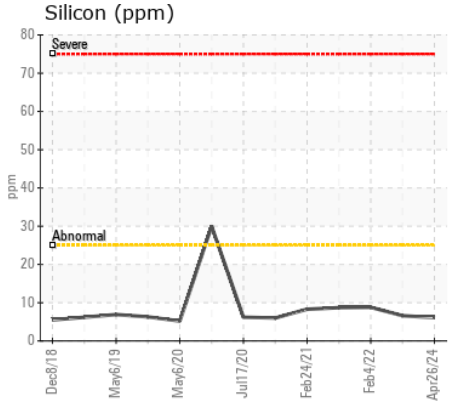
Chromium (ppm)



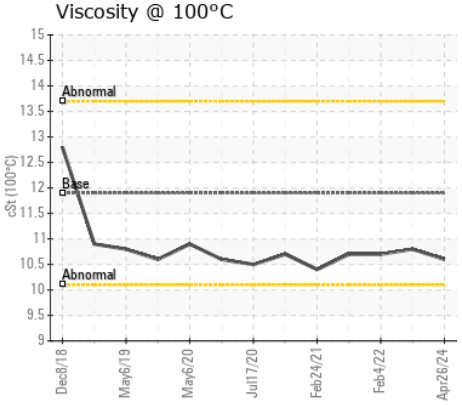
Copper (ppm)



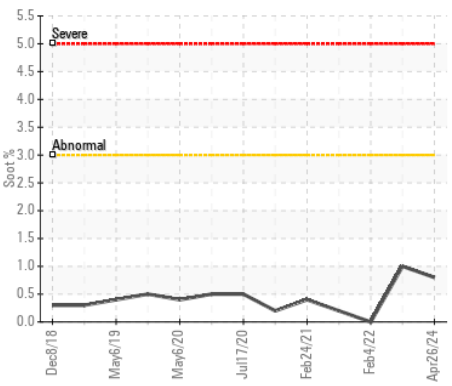
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0773421
Lab Number : 02632665
Unique Number : 5773818
Test Package : MOB 1

Received : 02 May 2024
Tested : 02 May 2024
Diagnosed : 02 May 2024 - Kevin Marson

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.

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