MOBIL LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
INTERNATIONAL 110-2300
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

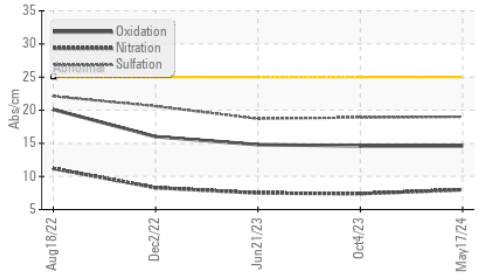
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

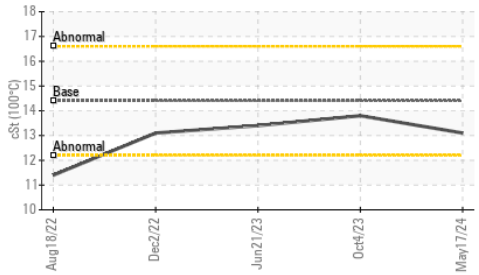
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**PC0088727**	PC0072547	PC0072443
Sample Date		Client Info		**17 May 2024**	04 Oct 2023	21 Jun 2023
Machine Age	kms	Client Info		**61054**	48608	35500
Oil Age	kms	Client Info		**13054**	12000	12000
Filter Age	kms	Client Info		**13054**	12000	12000
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>100	**45**	22	25
Chromium	ppm	ASTM D5185(m)	>20	**2**	1	2
Nickel	ppm	ASTM D5185(m)	>4	**<1**	0	0
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)	>3	**0**	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	**11**	7	9
Lead	ppm	ASTM D5185(m)	>40	**0**	<1	0
Copper	ppm	ASTM D5185(m)	>330	**4**	2	4
Tin	ppm	ASTM D5185(m)	>15	**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Silicon	ppm	ASTM D5185(m)	>25	**6**	7	8
Potassium	ppm	ASTM D5185(m)	>20	**19**	14	18
Fuel		WC Method	>2.0	**<1.0**	<1.0	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	ASTM D7844*	>3	**0.3**	0.3	0.2
Nitration	Abs/cm	ASTM D7624*	>20	**8.0**	7.4	7.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	**19.0**	18.9	18.7
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>158	**1**	2	2
Boron	ppm	ASTM D5185(m)	250	**4**	2	7
Barium	ppm	ASTM D5185(m)	10	**0**	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	**58**	60	58
Manganese	ppm	ASTM D5185(m)		**<1**	0	<1
Magnesium	ppm	ASTM D5185(m)	450	**933**	978	954
Calcium	ppm	ASTM D5185(m)	3000	**1099**	1077	1048
Phosphorus	ppm	ASTM D5185(m)	1150	**1012**	1025	1039
Zinc	ppm	ASTM D5185(m)	1350	**1169**	1226	1182
Sulfur	ppm	ASTM D5185(m)	4250	**2494**	2577	2555
Oxidation	Abs/.1mm	ASTM D7414*	>25	**14.6**	14.6	14.8
Visc @ 40°C	cSt	ASTM D7279(m)	115	**94.1**	103	96.8
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	**13.1**	13.8	13.4
Viscosity Index (VI)	Scale	ASTM D2270*	126	**137**	134	138

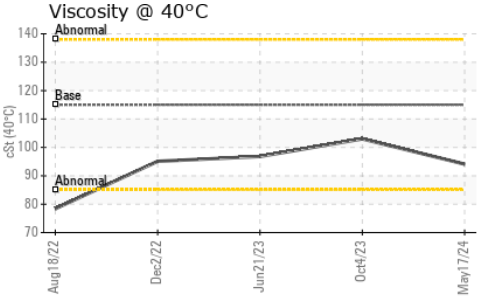
FT-IR (Direct Trend)



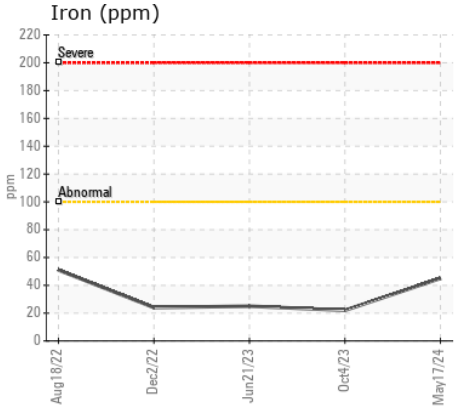
Viscosity @ 100°C



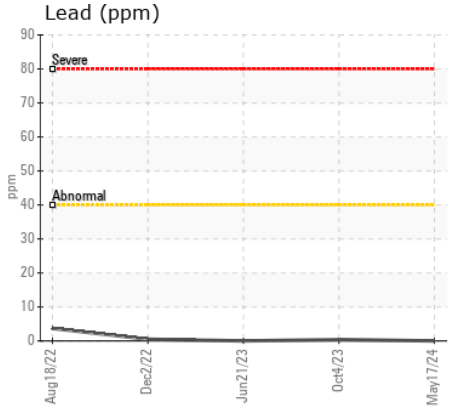
Viscosity @ 40°C



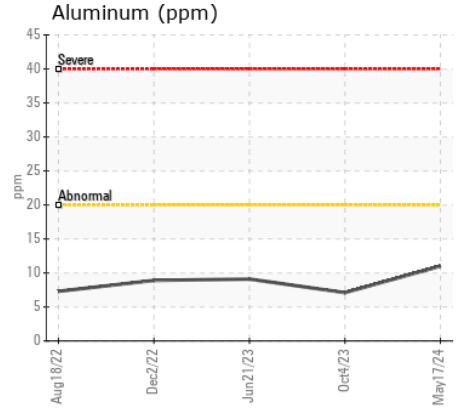
Iron (ppm)



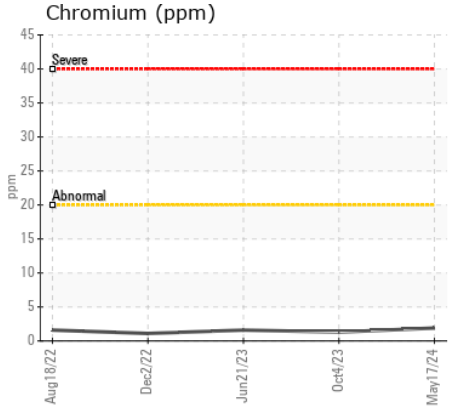
Lead (ppm)



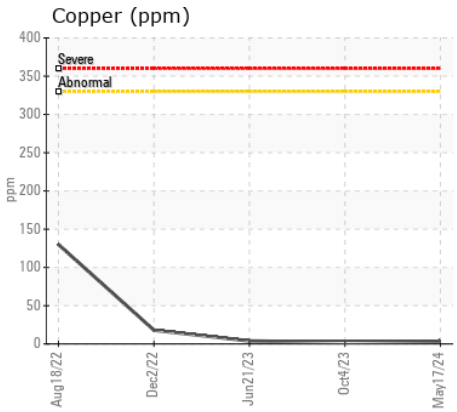
Aluminum (ppm)



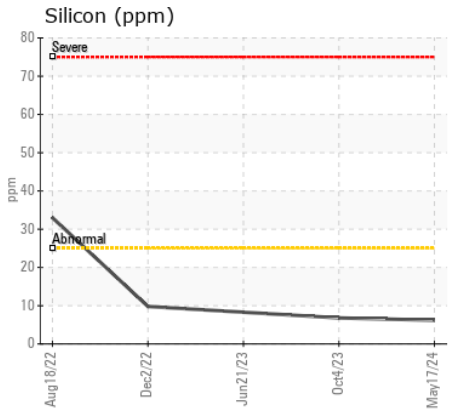
Chromium (ppm)



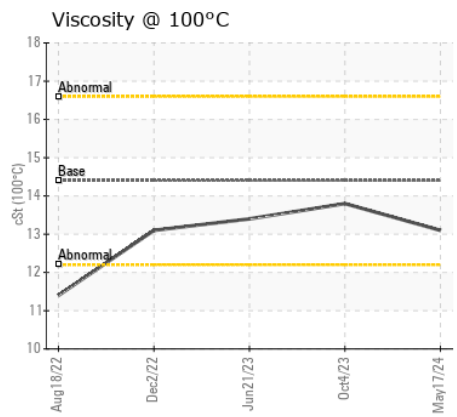
Copper (ppm)



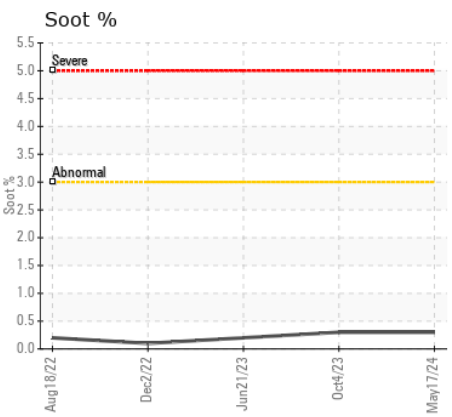
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0088727 **Received** : 29 May 2024
Lab Number : 02638354 **Tested** : 29 May 2024
Unique Number : 5787516 **Diagnosed** : 29 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI)

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.

LAVIS CONTRACTING
37462A HURON ROAD
CLINTON, ON
CA N0M 1L0
Contact: Doug Francis
dfrancis@lavis.ca
T: (519)482-3694
F: (519)482-7886