MOBIL LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
TB112
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 5W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

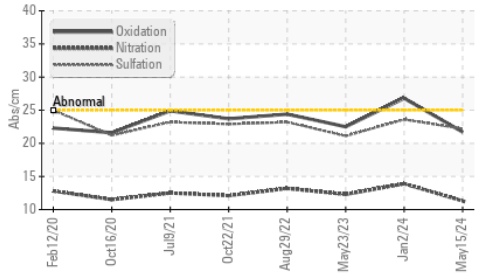
There is no indication of any contamination in the oil.

FLUID CONDITION

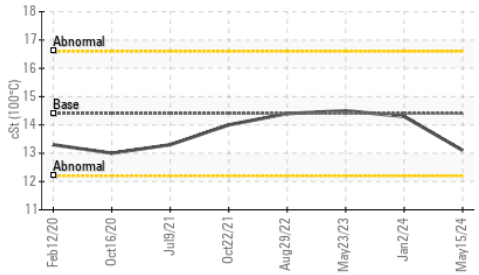
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0089309	PC0082670	PC0075782
Sample Date		Client Info		15 May 2024	02 Jan 2024	23 May 2023
Machine Age	hrs	Client Info		5154	4939	4372
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>100	19	32	28
Chromium	ppm	ASTM D5185(m)	>20	<1	1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	▲ 34	18
Lead	ppm	ASTM D5185(m)	>40	2	<1	0
Copper	ppm	ASTM D5185(m)	>330	2	12	10
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	3	6	7
Potassium	ppm	ASTM D5185(m)	>20	<1	14	5
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	NEG
Soot %	%	ASTM D7844*	>3	0.1	0.3	0.1
Nitration	Abs/cm	ASTM D7624*	>20	11.3	13.9	12.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.2	23.6	21.1
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>44	5	5	5
Boron	ppm	ASTM D5185(m)	250	24	20	41
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	60	58	61
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	1112	1093	1123
Calcium	ppm	ASTM D5185(m)	3000	856	812	875
Phosphorus	ppm	ASTM D5185(m)	1150	1015	978	1088
Zinc	ppm	ASTM D5185(m)	1350	1200	1177	1218
Sulfur	ppm	ASTM D5185(m)	4250	2718	2857	2830
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.7	26.8	22.5
Visc @ 40°C	cSt	ASTM D7279(m)	91	81.3	89.2	91.1
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.1	14.3	14.5
Viscosity Index (VI)	Scale	ASTM D2270*	164	162	166	165

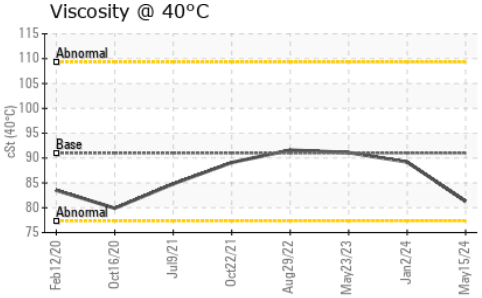
FT-IR (Direct Trend)



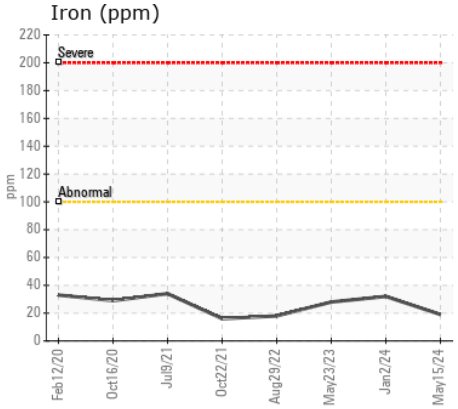
Viscosity @ 100°C



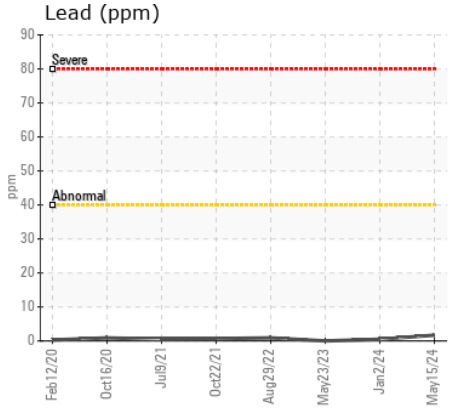
Viscosity @ 40°C



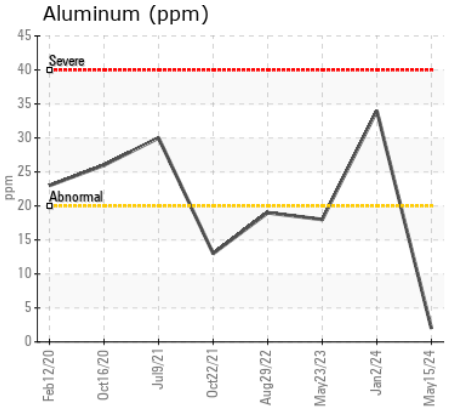
Iron (ppm)



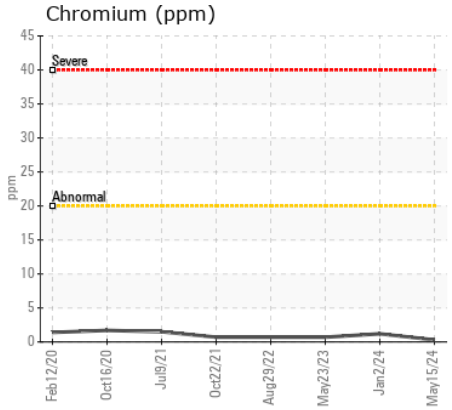
Lead (ppm)



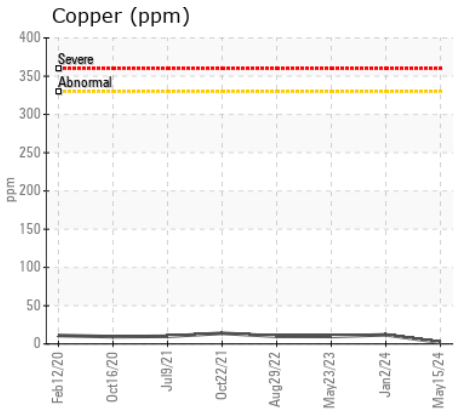
Aluminum (ppm)



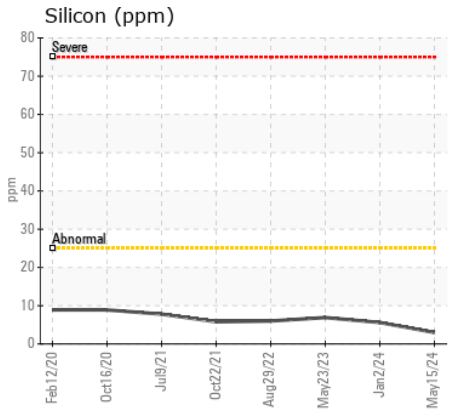
Chromium (ppm)



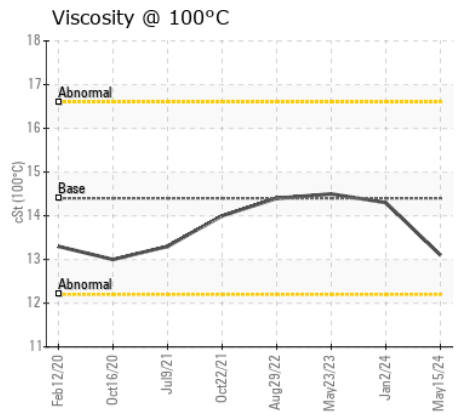
Copper (ppm)



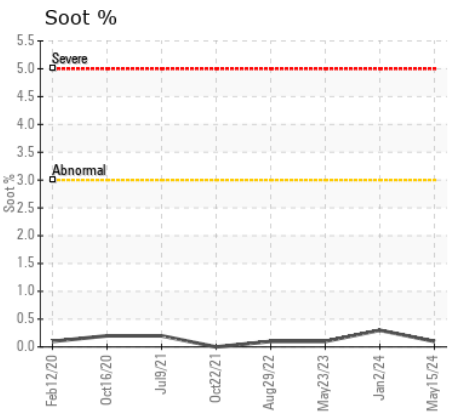
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0089309
Lab Number : 02636334
Unique Number : 5785496
Test Package : MOB 1 (Additional Tests: KV40, VI)

Received : 17 May 2024
Tested : 17 May 2024
Diagnosed : 17 May 2024 - Wes Davis

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.

Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations
151 Ram Forest Rd,
Stouffville, ON
CA L4A 2G8
Contact: Bill Acton
bacton@gipi.com
T:
F: