MOBIL

Dura-Check Fluid Analysis

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Area

[PMOAS3372436]

Machine Id

CD2000RY67L 300572-1-1-208

Component

Diesel Engine

Fluid

DIESEL ENGINE OIL SAE 15W40 (--- QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

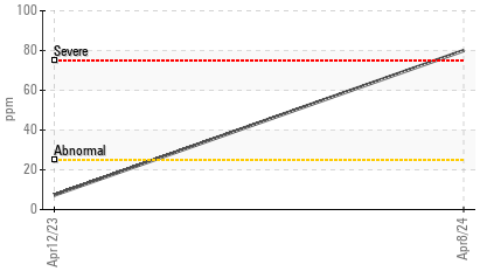
Elemental level of silicon (Si) above normal indicating ingress of seal material.

FLUID CONDITION

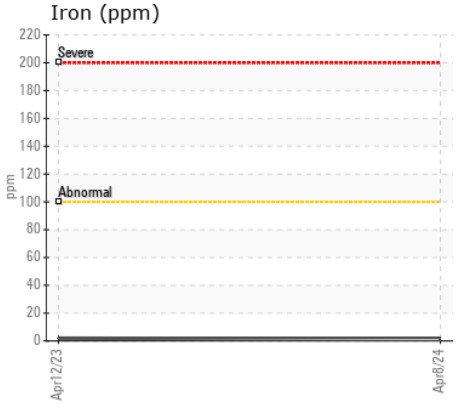
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0034966	DC0026365	---
Sample Date		Client Info		08 Apr 2024	12 Apr 2023	---
Machine Age	hrs	Client Info		489	455	---
Oil Age	hrs	Client Info		44	30	---
Filter Age	hrs	Client Info		44	30	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	MARGINAL	---
Iron	ppm	ASTM D5185m	>100	1	2	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	0	<1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>20	1	<1	---
Lead	ppm	ASTM D5185m	>40	0	1	---
Copper	ppm	ASTM D5185m	>330	<1	1	---
Tin	ppm	ASTM D5185m	>15	0	<1	---
Vanadium	ppm	ASTM D5185m		0	1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>25	▲ 80	7	---
Potassium	ppm	ASTM D5185m	>20	4	3	---
Fuel	%	ASTM D3524	>5	<1.0	▲ 3.5	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0	0	---
Nitration	Abs/cm	*ASTM D7624	>20	5.5	5.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.4	15.3	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185m	>158	2	2	---
Boron	ppm	ASTM D5185m	250	7	3	---
Barium	ppm	ASTM D5185m	10	0	0	---
Molybdenum	ppm	ASTM D5185m	100	3	3	---
Manganese	ppm	ASTM D5185m		0	2	---
Magnesium	ppm	ASTM D5185m	450	43	35	---
Calcium	ppm	ASTM D5185m	3000	2396	2123	---
Phosphorus	ppm	ASTM D5185m	1150	973	817	---
Zinc	ppm	ASTM D5185m	1350	1064	989	---
Sulfur	ppm	ASTM D5185m	4250	3795	3864	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.2	9.0	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.9	8.0	---
Visc @ 100°C	cSt	ASTM D445	14.4	● 12.2	12.2	---

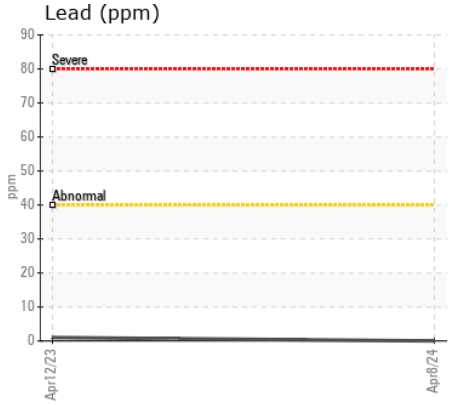
Silicon (ppm)



Iron (ppm)

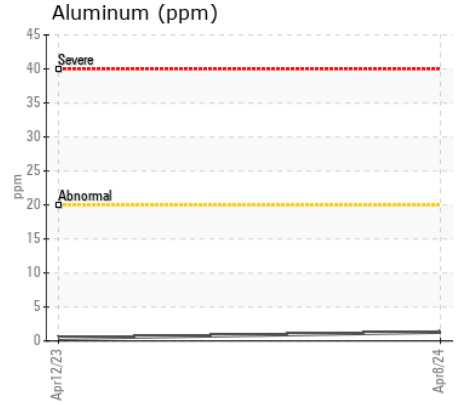


Lead (ppm)

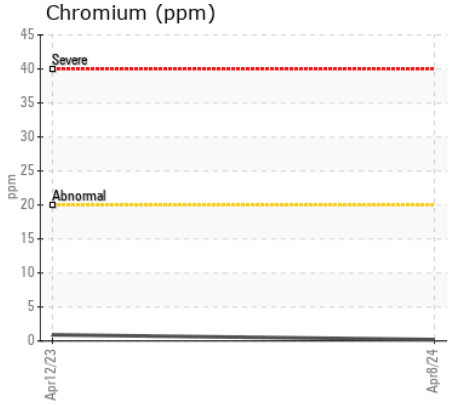


Viscosity @ 100°C

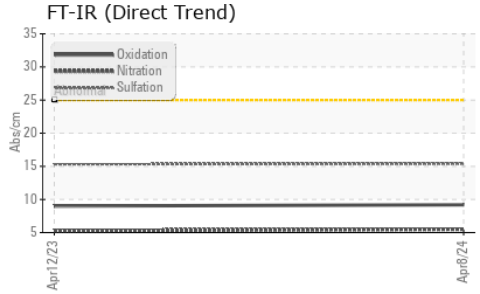
Aluminum (ppm)



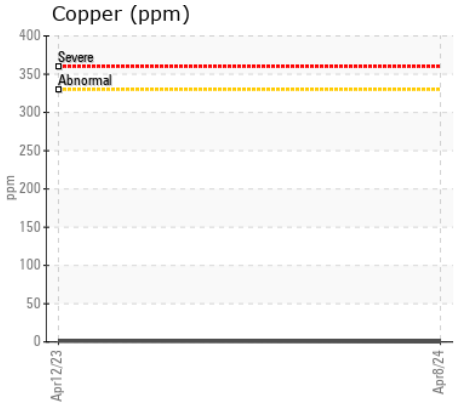
Chromium (ppm)



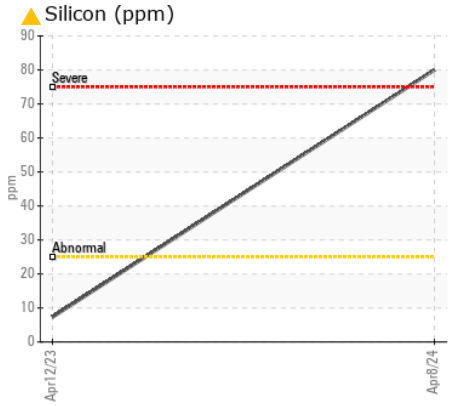
FT-IR (Direct Trend)



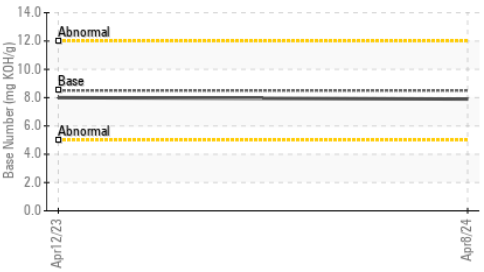
Copper (ppm)



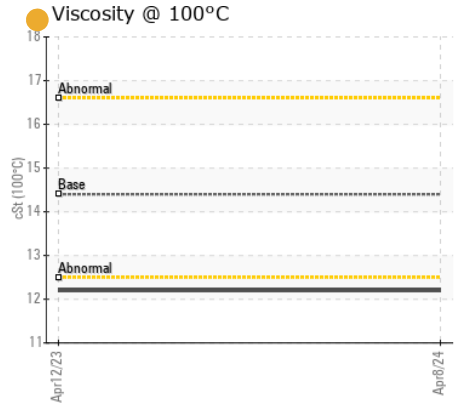
Silicon (ppm)



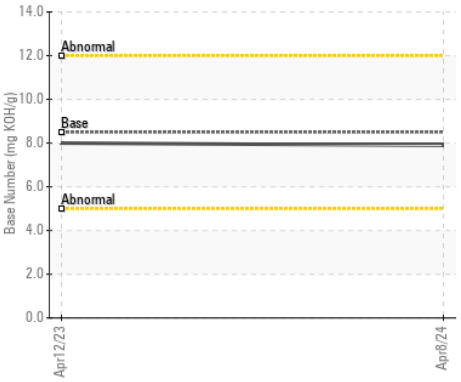
Base Number



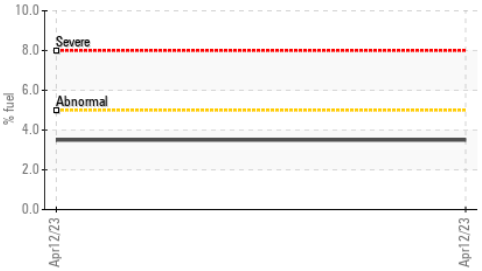
Viscosity @ 100°C



Base Number



Fuel Dilution



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0034966
Lab Number : 06151837
Unique Number : 10981915
Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel, TBN)

Received : 17 Apr 2024
Tested : 22 Apr 2024
Diagnosed : 22 Apr 2024 - Jonathan Hester

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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