MOB I

Dura-Check Fluid Analysis

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Machine Id
INTERNATIONAL GLEN HORST
Component
Diesel Engine
Fluid
UNITECH SAE 30 (--- GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Bearing and/or bushing wear is indicated.

CONTAMINATION

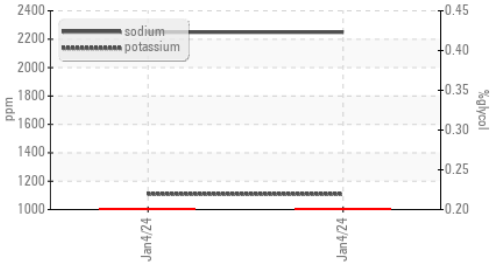
Sodium and/or potassium levels are high. There is a high concentration of glycol present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

FLUID CONDITION

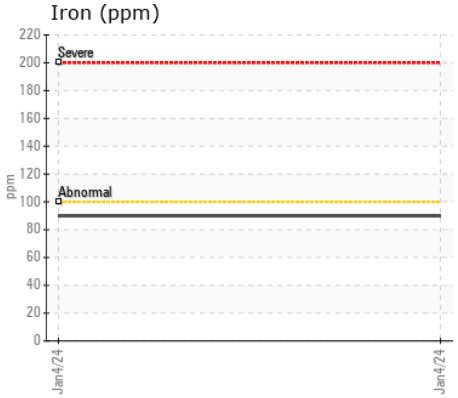
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0030681	---	---
Sample Date		Client Info		04 Jan 2024	---	---
Machine Age	hrs	Client Info		1320	---	---
Oil Age	hrs	Client Info		114	---	---
Filter Age	hrs	Client Info		114	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>100	90	---	---
Chromium	ppm	ASTM D5185m	>20	2	---	---
Nickel	ppm	ASTM D5185m	>4	1	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m	>3	0	---	---
Aluminum	ppm	ASTM D5185m	>20	5	---	---
Lead	ppm	ASTM D5185m	>40	⬢ 473	---	---
Copper	ppm	ASTM D5185m	>330	▲ 181	---	---
Tin	ppm	ASTM D5185m	>15	11	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>25	▲ 61	---	---
Potassium	ppm	ASTM D5185m	>20	▲ 1109	---	---
Fuel		WC Method	>2.0	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol	%	*ASTM D2982		⬢ 0.20	---	---
Soot %	%	*ASTM D7844	>3	1.3	---	---
Nitration	Abs/cm	*ASTM D7624	>20	99.2	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	4.1	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---	---
Sodium	ppm	ASTM D5185m		▲ 2249	---	---
Boron	ppm	ASTM D5185m		217	---	---
Barium	ppm	ASTM D5185m		6	---	---
Molybdenum	ppm	ASTM D5185m		83	---	---
Manganese	ppm	ASTM D5185m		1	---	---
Magnesium	ppm	ASTM D5185m		168	---	---
Calcium	ppm	ASTM D5185m		530	---	---
Phosphorus	ppm	ASTM D5185m		1308	---	---
Zinc	ppm	ASTM D5185m		502	---	---
Sulfur	ppm	ASTM D5185m		1771	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	84.5	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		76.3	---	---

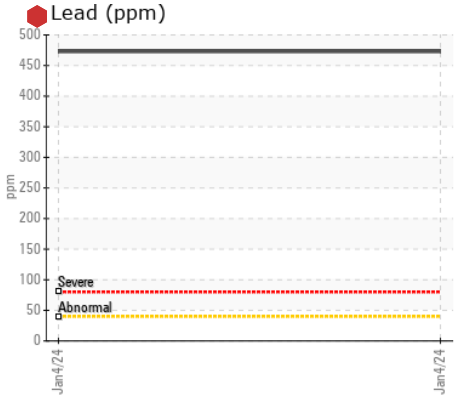
Glycol Contamination



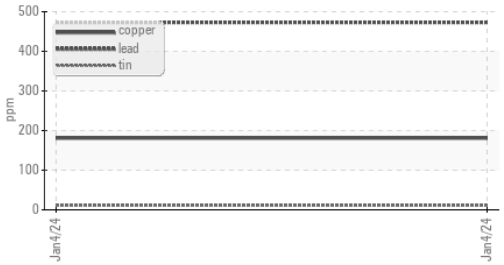
Iron (ppm)



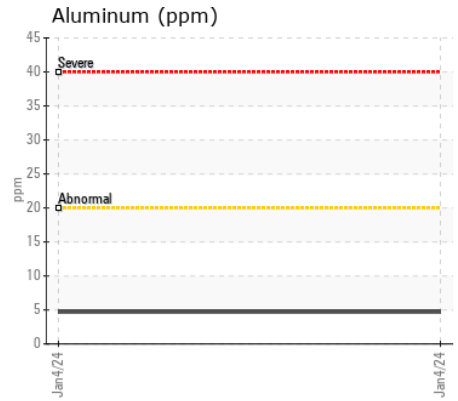
Lead (ppm)



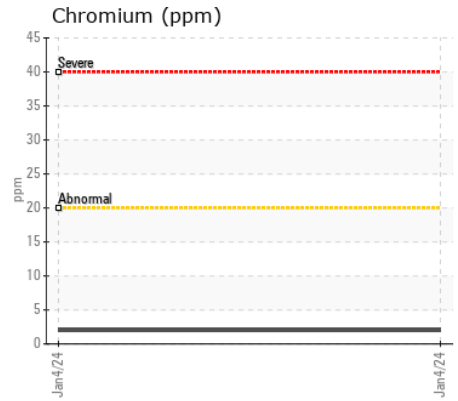
Non-ferrous Metals



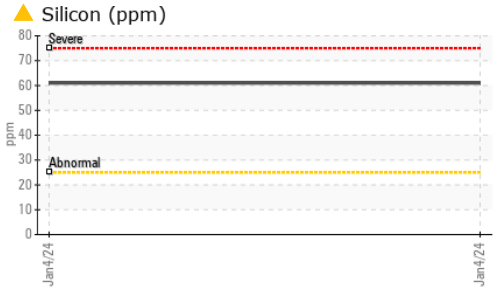
Aluminum (ppm)



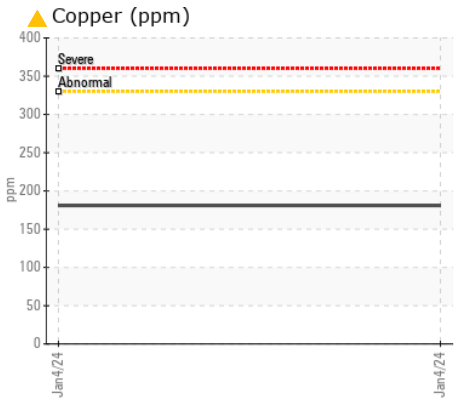
Chromium (ppm)



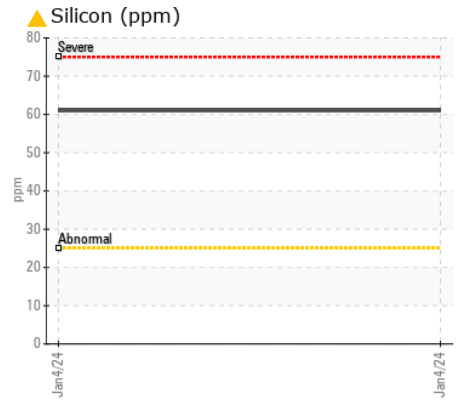
Silicon (ppm)



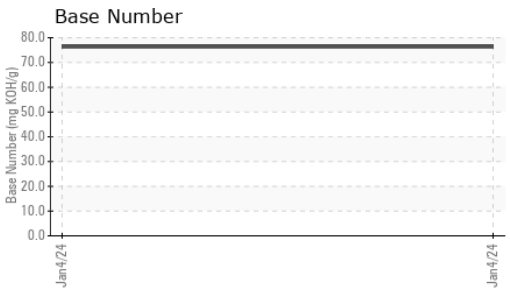
Copper (ppm)



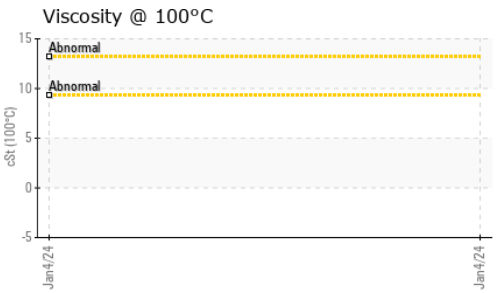
Silicon (ppm)



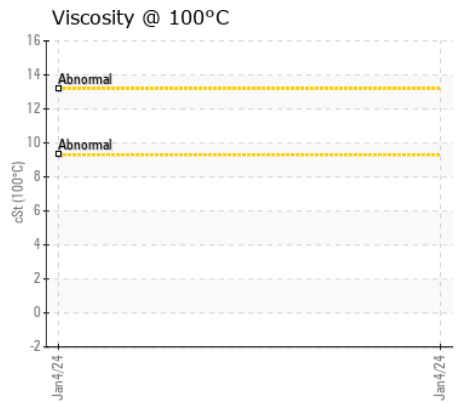
Base Number



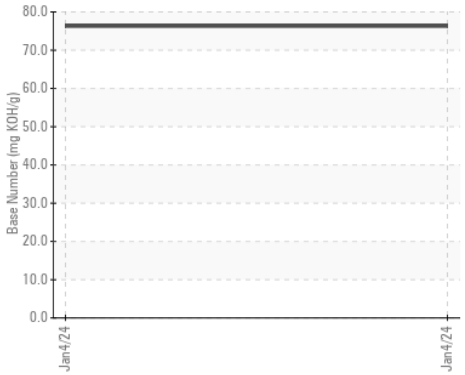
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0030681 **Recieved** : 11 Jan 2024
Lab Number : 06058691 **Diagnosed** : 15 Jan 2024
Unique Number : 10830073 **Diagnostician** : Jonathan Hester
Test Package : MOB 1 (Additional Tests: Glycol, 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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