

OIL ANALYSIS REPORT

Sample Rating Trend **GLYCOL**

Machine Id 1012 Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Check for low coolant level. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high.

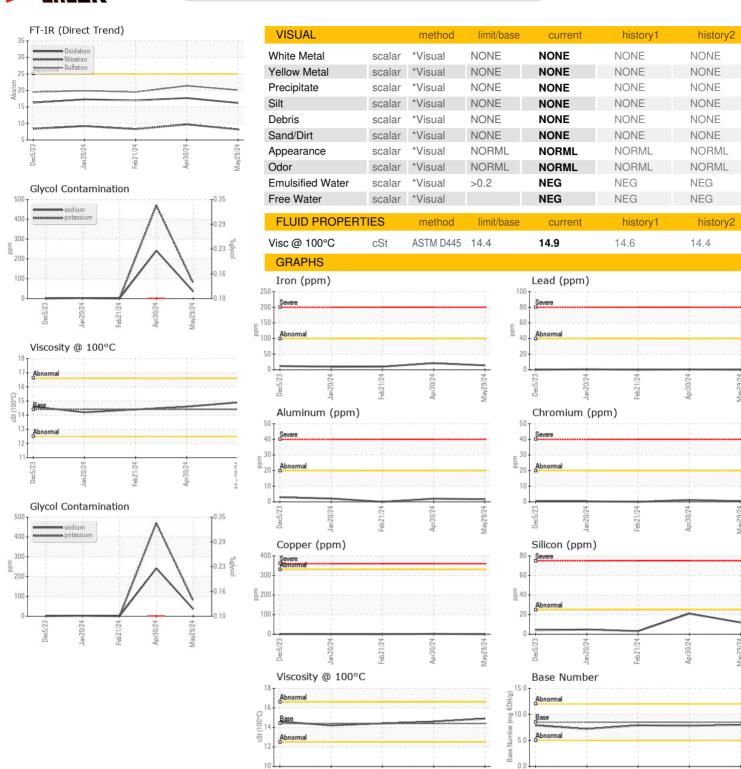
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

		Dec2023	Jan2024	Feb 2024 Apr 2024	May/2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0897822	WC0897848	WC0878772
Sample Date		Client Info		29 May 2024	30 Apr 2024	21 Feb 2024
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	14	21	10
Chromium	ppm	ASTM D5185m	>20	<1	1	0
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	0
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	0	2	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	1	1	0
Barium	ppm	ASTM D5185m	10	0	2	0
Molybdenum	ppm	ASTM D5185m	100	68	88	61
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	450	1091	948	1076
Calcium	ppm	ASTM D5185m	3000	1176	1158	1169
Phosphorus	ppm	ASTM D5185m	1150	1125	1089	1120
Zinc	ppm	ASTM D5185m	1350	1433	1243	1321
Sulfur	ppm	ASTM D5185m	4250	3810	3232	3219
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	12	21	3
Sodium	ppm	ASTM D5185m	>158	36	242	1
Potassium	ppm	ASTM D5185m	>20	^ 78	▲ 470	0
Glycol	%	*ASTM D2982		NEG	▲ 0.10	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.6	0.4
Nitration	Abs/cm	*ASTM D7624	>20	8.2	9.7	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	21.4	19.5
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	17.7	17.0
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.0	7.8	7.9
(214)						



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06208330 Unique Number : 11075791

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0897822 Received : 12 Jun 2024

Tested : 14 Jun 2024 Diagnosed : 14 Jun 2024 - Sean Felton

Test Package : MOB 1 (Additional Tests: 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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Report Id: GODDUR [WUSCAR] 06208330 (Generated: 06/15/2024 12:47:08) Rev: 1

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