

OIL ANALYSIS REPORT

Machine Id 3004M Component

Diesel Engine

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

Sample Rating Trend



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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. No other contaminants were detected in the oil.

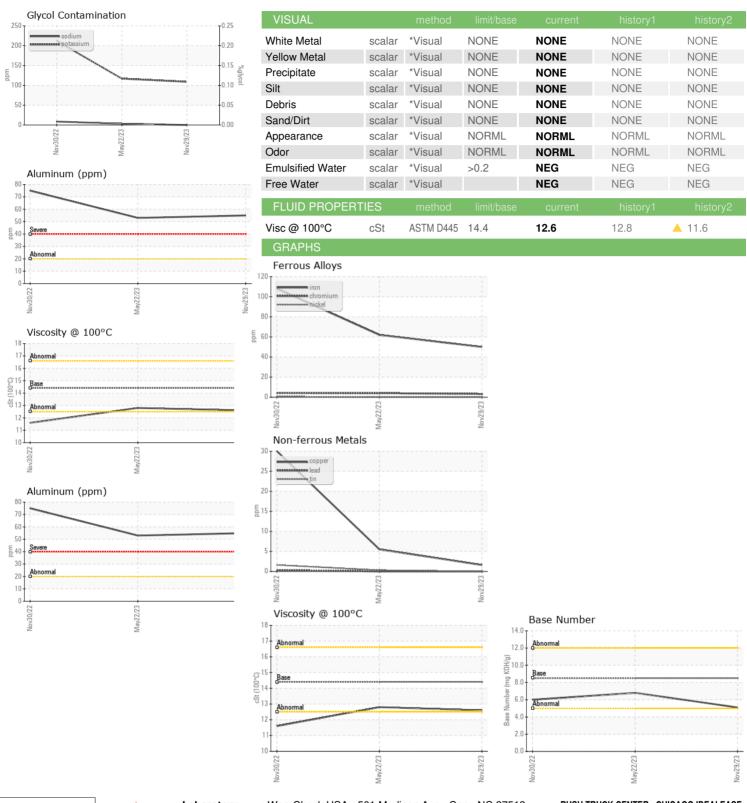
Fluid Condition

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.

Nov2022 May2023 Nov2023						
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		IL06026239	IL0028945	IL0028993
Sample Date		Client Info		29 Nov 2023	22 May 2023	30 Nov 2022
Machine Age	mls	Client Info		48534	33368	17019
Oil Age	mls	Client Info		15134	15000	15000
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	MARGINAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<u>2.1</u>
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	50	62	108
Chromium	ppm	ASTM D5185m	>20	3	4	4
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	55	53	75
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	2	6	30
Tin	ppm	ASTM D5185m	>15	0	<1	2
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	0	1	30
Barium	ppm	ASTM D5185m	10	2	0	0
Molybdenum	ppm	ASTM D5185m	100	58	61	51
Manganese	ppm	ASTM D5185m		0	2	6
Magnesium	ppm	ASTM D5185m	450	860	943	826
Calcium	ppm	ASTM D5185m	3000	983	1087	1260
Phosphorus	ppm	ASTM D5185m	1150	837	876	680
Zinc	ppm	ASTM D5185m	1350	1067	1100	844
Sulfur	ppm	ASTM D5185m	4250	3074	3175	2197
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	9	25
Sodium	ppm	ASTM D5185m	>158	0	3	9
Potassium	ppm	ASTM D5185m	>20	109	117	212
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	0.9	0.9
Nitration	Abs/cm	*ASTM D7624	>20	11.5	11.6	14.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.0	24.9	29.1
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	31.6	25.5	32.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.1	6.8	6.0



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Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: IL06026239 : 06026239 : 10776030

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06 Dec 2023 Received Diagnosed : 07 Dec 2023

Diagnostician : Don Baldridge **RUSH TRUCK CENTER - CHICAGO IDEALEASE** 4655 SOUTH CENTRAL AVENUE

CHICAGO, IL US 60638

F: (708)496-8818

Contact: MIKE LINLEY

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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)