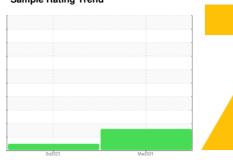


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 1707 Component Diesel Engine

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

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

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

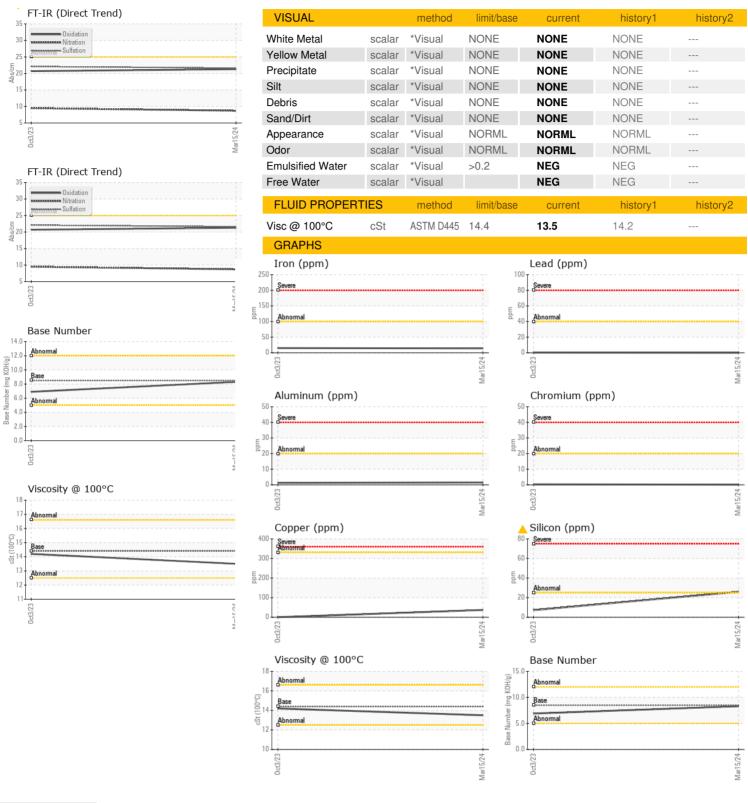
Fluid Condition

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

		<u> </u>	0ct2023	Mar2024		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0894022	WC0855895	
Sample Date		Client Info		15 Mar 2024	03 Oct 2023	
Machine Age	mls	Client Info		0	0	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	NORMAL	
CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	14	15	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	
Fitanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	1	
_ead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm	ASTM D5185m	>330	37	<1	
 Γin	ppm	ASTM D5185m	>15	0	<1	
/anadium	ppm	ASTM D5185m		<1	0	
	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	43	2	
Barium	ppm	ASTM D5185m	10	5	0	
Molybdenum	ppm	ASTM D5185m	100	50	61	
Manganese	ppm	ASTM D5185m		7	<1	
Magnesium	ppm	ASTM D5185m	450	813	947	
Calcium	ppm	ASTM D5185m	3000	1237	1136	
Phosphorus	ppm	ASTM D5185m	1150	776	1049	
	ppm	ASTM D5185m	1350	934	1315	
	ppm	ASTM D5185m	4250	2895	3066	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	^ 26	7	
Sodium	ppm	ASTM D5185m	>158	4	6	
Potassium	ppm	ASTM D5185m	>20	<1	4	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.6	
Vitration	Abs/cm	*ASTM D7624	>20	8.7	9.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	22.1	
FLUID DEGRADAT	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.3	20.7	
	mg KOH/g	ASTM D2896		8.3	6.9	
(DI4)	goring		3.0	0.0	0.0	



OIL ANALYSIS REPORT





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06137131

: WC0894022

Unique Number : 10956596

Received **Tested** Diagnosed

: 03 Apr 2024 : 04 Apr 2024

: 05 Apr 2024 - Sean Felton

US 27701 Contact: Robert Iosiniecki Robert.losiniecki@ratpdev.com T:

GO DURHAM - RAPT

DURHAM, NC

1903 FAYETTEVILLE ST

Test Package : MOB 1 (Additional Tests: TBN) Certificate 12367 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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