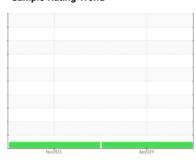


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 35189555 Component Diesel Engine

ALPHA 15W40 (--- QTS)

-	ΙА	G۲	NIC	151	-
	-	СΠ	\mathbf{v}	\sim	-

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

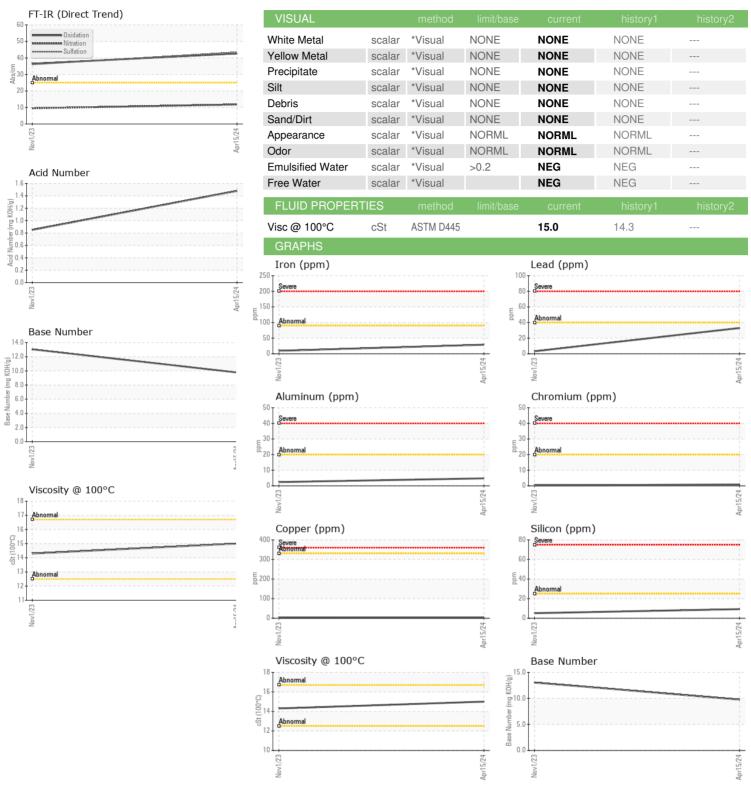
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

			Nov2023	Apr2024		
CAMPLE INFORM	AATIONI.		lineit/lenen	a	المستعددا	history O
SAMPLE INFORM	/IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0800732	WC0800731	
Sample Date		Client Info		15 Apr 2024	01 Nov 2023	
Machine Age	hrs	Client Info		3000	2003	
Oil Age	hrs	Client Info		1000	500	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	29	10	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>2	0	0	
Titanium	ppm	ASTM D5185m	>2	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>20	5	2	
Lead	ppm	ASTM D5185m	>40	33	3	
Copper	ppm	ASTM D5185m	>330	2	2	
Tin	ppm	ASTM D5185m	>15	1	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		9	<1	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		263	239	
Manganese	ppm	ASTM D5185m		<1	0	
Magnesium	ppm	ASTM D5185m		19	118	
Calcium	ppm	ASTM D5185m		4345	3988	
Phosphorus	ppm	ASTM D5185m		1211	1228	
Zinc	ppm	ASTM D5185m		1260	1330	
Sulfur	ppm	ASTM D5185m		5157	4732	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	5	
Sodium	ppm	ASTM D5185m		6	5	
Potassium	ppm	ASTM D5185m	>20	1	2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	1.4	0.6	
Nitration	Abs/cm	*ASTM D7624	>20	11.8	9.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	43.5	36.0	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	42.6	36.5	
Acid Number (AN)	mg KOH/g	ASTM D8045		1.48	0.85	
Page Number (PN)	111g 1(O11/g	ACTM DOOGS		0.77	12.04	

Base Number (BN) mg KOH/g ASTM D2896



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

: WC0800732 Lab Number : 06157095 Unique Number : 10992518 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Tested

: 22 Apr 2024 Diagnosed

: 23 Apr 2024 : 25 Apr 2024 - Jonathan Hester

STARLING MFG 11362 ARBA PIKE FOUNTAIN CITY, IN US 47341 Contact: Service Manager

MCTRUCKLLC@GMAIL.COM T:

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)

F: