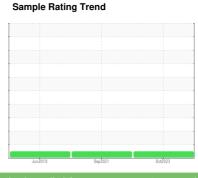


OIL ANALYSIS REPORT

[W119970] KATOLIGHT CAPITAL ASSOCIATE

Diesel Engine

DIESEL ENGINE OIL SAE 5W40 (3 GAL)





Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0753122	WC0566997	WCM1396531
Sample Date		Client Info		04 Oct 2023	24 Sep 2021	14 Jun 2019
Machine Age	hrs	Client Info		162	143	112
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	0	2	3
Chromium	ppm	ASTM D5185m	>11	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		<1	1	1
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>31	2	<1	2
Lead	ppm	ASTM D5185m	>26	0	<1	<1
Copper	ppm	ASTM D5185m	>26	<1	<1	2
Tin	ppm	ASTM D5185m	>4	<1	0	0
Antimony	ppm	ASTM D5185m			0	0
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	83	104	17
Barium	ppm	ASTM D5185m	10	0	0	2
Molybdenum	ppm	ASTM D5185m	100	66	<1	9
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	178	721	12
Calcium	ppm	ASTM D5185m	3000	1938	1335	2275
Phosphorus	ppm	ASTM D5185m	1150	934	1034	937
Zinc	ppm	ASTM D5185m	1350	1180	1210	1065
Sulfur	ppm	ASTM D5185m	4250	3679	3550	3258
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	13	11	37
Sodium	ppm	ASTM D5185m	>44	2	1	3
Potassium	ppm	ASTM D5185m	>20	1	3	7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.1	6.2	4.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.0	19.2	17.2
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.8	12.8	12.9



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number **Unique Number**

100

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0753122 : 05979290

Received : 10696585 Test Package : MOB 1 (Additional Tests: TBN)

: 16 Oct 2023 Diagnosed : 17 Oct 2023

Diagnostician : Wes Davis

(mg KOH/g)

Base Nu 0.0

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) **NATIONAL POWER CORP**

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