

OIL ANALYSIS REPORT

Area [62005587821]

Component

Diesel Engine

DIESEL ENGINE OIL SAE 30 (--- QTS)

Sample Rating Trend



Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

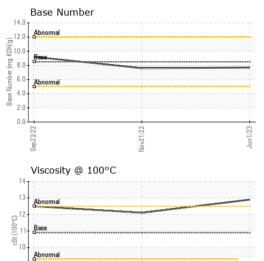
Fluid Condition

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

		Sep	2022	Nov2022 Jun20	23	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0799992	WC0723389	WC0723349
Sample Date		Client Info		01 Jun 2023	21 Nov 2022	23 Sep 2022
Machine Age	mls	Client Info		34711	14459	19668
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
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	18	49	35
Chromium	ppm	ASTM D5185m	>20	<1	1	1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		47	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	4
Aluminum	ppm	ASTM D5185m	>20	6	22	19
Lead	ppm	ASTM D5185m	>40	0	<1	2
Copper	ppm	ASTM D5185m	>330	3	27	25
Tin	ppm	ASTM D5185m		0	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	97	35	64
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	7	13	13
Manganese	ppm	ASTM D5185m		<1	1	2
Magnesium	ppm	ASTM D5185m	450	584	715	702
Calcium	ppm	ASTM D5185m	3000	1627	1351	1321
Phosphorus	ppm	ASTM D5185m	1150	1084	965	1042
Zinc	ppm	ASTM D5185m	1350	1291	1230	1239
Sulfur	ppm	ASTM D5185m	4250	4755	3817	4294
CONTAMINANTS method limit/base current history1 history2						
Silicon	ppm	ASTM D5185m	>25	9	19	17
Sodium	ppm	ASTM D5185m	>75	2	6	4
Potassium	ppm	ASTM D5185m	>20	15	61	55
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.4	10.5	9.5
Sulfation	Abs/.1mm	*ASTM D7415		20.7	23.9	21.0
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	17.1	14.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.7	7.6	9.2
= 3.50 · (abo)	99		3.0			V

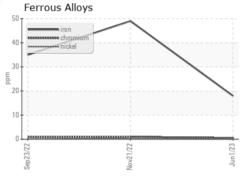


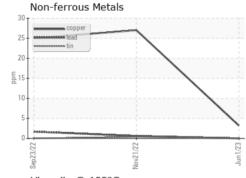
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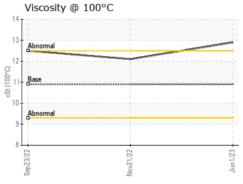


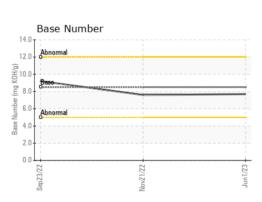
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPER	TILO	memod			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	10.9	12.9	12.1	12.5













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10509838 Test Package : FLEET

: 05870054

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WC0799992

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 09 Jun 2023 Diagnosed : 13 Jun 2023

Diagnostician : Doug Bogart

CASWELL COUNTY SCHOOL BUS 353 COUNTY HOME ROAD

YANCEYVILLE, NC US 27379

Contact: DEBRA MOORE debra.moore@caswell.k12.nc.us

T: (336)694-4116

* - 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)