

Machine Id **1575** Component **Diesel Engine** Filuid **DIESEL ENGINE OIL SAE 40 (--- QTS)**

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm. Please specify the component make and model with your next sample.

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WEAR

All component wear rates are normal.

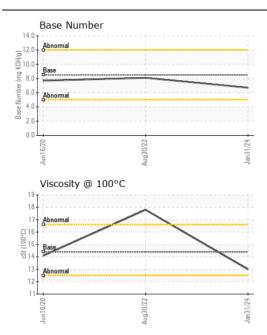
CONTAMINATION

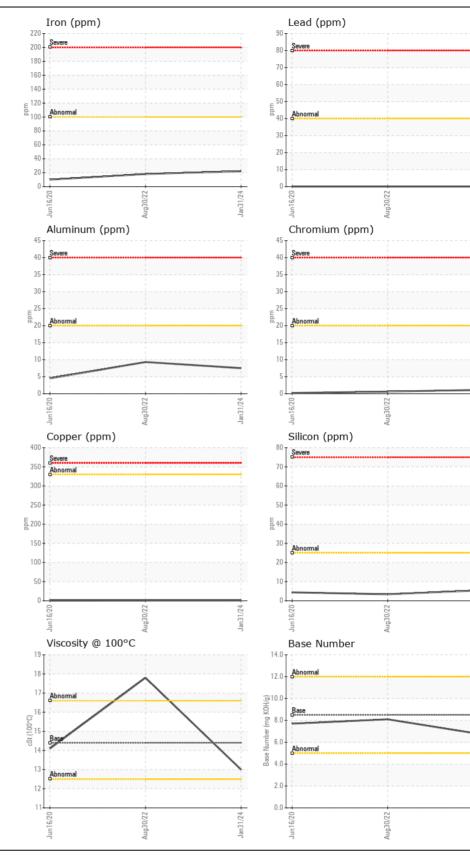
There is no indication of any contamination in the oil.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0870853	WC0729705	WC0447072
Sample Date		Client Info		31 Jan 2024	30 Aug 2022	16 Jun 2020
Machine Age	mls	Client Info		214206	189325	158515
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	ATTENTION	NORMAL
Iron		ASTM D5185m	>100	22	18	10
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>20	۱ <1	0	0
Titanium	ppm	ASTM D5185m	>4	0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm ppm	ASTM D5185m	>20	8	9	4
Lead		ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>330	۰ <1	<1	<1
Tin	ppm ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m	>15	0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	304141	VISUAI	NONE		NONL	NONE
Silicon	ppm	ASTM D5185m	>25	6	3	4
Potassium	ppm	ASTM D5185m	>20	4	6	5
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.7	0.7	0.3
Nitration	Abs/cm	*ASTM D7624	>20	10.4	9.5	10
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	20.1	18.2
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
Sodium	ppm	ASTM D5185m	>216	2	2	3
Boron	ppm	ASTM D5185m	250	29	26	54
Barium	ppm	ASTM D5185m	10	0	<1	0
Molybdenum	ppm	ASTM D5185m	100	81	53	82
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	450	166	92	32
Calcium	ppm	ASTM D5185m	3000	1921	2056	2268
Phosphorus	ppm	ASTM D5185m	1150	1000	932	996
Zinc	ppm	ASTM D5185m	1350	1210	1143	1124
Sulfur	ppm	ASTM D5185m	4250	3724	3484	2976
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	13.8	14
Base Number (BN)		ASTM D2896	8.5	6.7	8.1	7.7
Visc @ 100°C	cSt	ASTM D445	14.4	13.0	17.8	14.1





WAKE COUNTY PUBLIC SCHOOL SYSTEM Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0870853 Received 1551 ROCK QUARRY ROAD : 29 Feb 2024 Lab Number : 06104847 Tested RALEIGH, NC :01 Mar 2024 : 01 Mar 2024 - Wes Davis US 27610 Unique Number : 10903077 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Contact: DEVIN WEBER Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dweber@wcpss.net * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (919)856-8076 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: x:

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Contact/Location: DEVIN WEBER - WCPRAL