

OIL ANALYSIS REPORT



Machine Id

22305 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 10W30 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0901356	WC0832054	WC0699805
Sample Date		Client Info		04 May 2024	08 Nov 2023	19 Oct 2022
Machine Age	mls	Client Info		218612	158452	50048
Oil Age	mls	Client Info		50000	0	50048
Oil Changed		Client Info		Changed	0 N/A	Changed
Sample Status				NORMAL	NORMAI	NORMAI
Campio Claudo					Northinte	HOT WIN IL
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	0.3
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	56	21	70
Chromium	ppm	ASTM D5185m	>20	<1	0	1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	40	5	40
Lead	ppm	ASTM D5185m	>40	0	<1	2
Copper	ppm	ASTM D5185m	>330	5	1	15
Tin	ppm	ASTM D5185m	>15	<1	<1	2
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	7	21	14
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	59	4	18
Manganese	ppm	ASTM D5185m		2	<1	2
Magnesium	ppm	ASTM D5185m	450	981	685	822
Calcium	ppm	ASTM D5185m	3000	1329	1367	1550
Phosphorus	ppm	ASTM D5185m	1150	1135	793	780
Zinc	ppm	ASTM D5185m	1350	1329	916	1053
Sulfur	ppm	ASTM D5185m	4250	3614	3080	3656
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15	13	18
Sodium	ppm	ASTM D5185m		4	2	5
Potassium	ppm	ASTM D5185m	>20	107	14	100
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	12.7	10.4	13.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.1	22.4	29.6
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.0	18.2	24.8
Base Number (BN)	mg KOH/a	ASTM D2896	8.5	4.8	5.7	5.6
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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: GARY LAWYER - MIDWIL