

OIL ANALYSIS REPORT

Sample Rating Trend





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.

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.

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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		IL05966139	IL05815172	IL05679772
Sample Date		Client Info		14 Sep 2023	17 Mar 2023	07 Oct 2022
Machine Age	mls	Client Info		85286	76596	68491
Oil Age	mls	Client Info		20000	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	23	25	55
Chromium	ppm	ASTM D5185m	>20	1	<1	2
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	8	7	20
Lead	ppm	ASTM D5185m	>40	<1	0	2
Copper	ppm	ASTM D5185m	>330	5	3	12
Tin	ppm	ASTM D5185m	>15	<1	0	1
Antimony	ppm	ASTM D5185m				
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	258	52	13
Barium	ppm	ASTM D5185m	10	0	0	<1
Molybdenum	ppm	ASTM D5185m	100	91	61	62
Manganese	ppm	ASTM D5185m		1	<1	1
Magnesium	maa	ASTM D5185m	450	707	731	702
Calcium	ppm	ASTM D5185m	3000	1533	1250	1300
Phosphorus	maa	ASTM D5185m	1150	1072	733	655
Zinc	ppm	ASTM D5185m	1350	1302	971	902
Sulfur	ppm	ASTM D5185m	4250	3463	2684	2486
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	8	17
Sodium	ppm	ASTM D5185m	>216	6	2	2
Potassium	ppm	ASTM D5185m	>20	15	11	48
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.8
Nitration	Abs/cm	*ASTM D7624	>20	8.1	10.6	15.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	21.3	27.6
FLUID DEGRADA		method	limit/base	current	history1	history2
Oxidation	Abs/1mm	*ASTM D7414	>25	15.7	19.8	27.8
Base Number (BN)	ma KOH/a	ASTM D2896	8.5	7.3	8.3	6.7
	ing itoring	10 m D2000	0.0	1.5	0.0	0.7



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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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	12.7	13.3	12.7





Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

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