

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id

SPG 4160A ENGINE LUBE OIL

Diesel Engine

MOBIL DELVAC MX EXTRA 0W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

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.

SAMPLE INFORM	/ ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PP14005838	PP13994698	PP13932690
Sample Date		Client Info		20 Jun 2024	12 May 2024	25 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	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
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 D5185(m)	>100	2	3	2
Chromium	ppm	ASTM D5185(m)		0	0	0
Nickel	ppm	ASTM D5185(m)	>4	۰ <1	0	<1
Titanium	ppm	ASTM D5185(m)	~7	0	0	0
Silver	ppm	ASTM D5185(m)	>3	۰ <1	0	<1
Aluminum	ppm	ASTM D5185(m)		2	2	2
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)		1	4	3
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Antimony	ppm	ASTM D5185(m)	>10	0	0	0
Vanadium		ASTM D5185(m)		0	0	0
Beryllium	ppm ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES	ppm	method	limit/base	current	history1	history2
			in the babb			1
Boron	ppm	ASTM D5185(m)		2	1 0	<1
Barium	ppm	ASTM D5185(m)		0		
Molybdenum Manganese	ppm	ASTM D5185(m) ASTM D5185(m)		0	0	0
Magnesium	ppm			5	9	6
Calcium	ppm ppm	ASTM D5185(m) ASTM D5185(m)		1838	9 2142	2082
Phosphorus		ASTM D5185(m)		826	926	887
Zinc	ppm	ASTM D5185(m)		958	1046	1053
Sulfur	ppm ppm	ASTM D5185(m)		2837	2961	2981
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	7	9
Sodium	ppm	ASTM D5185(m)	200	2	2	2
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	4.5	6.6	6.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	14.5	16.4	15.9



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