

OIL ANALYSIS REPORT

Sample Rating Trend

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Diesel Engine

Fluid MOBIL DELVAC 1300 SUPER15W40 (20 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

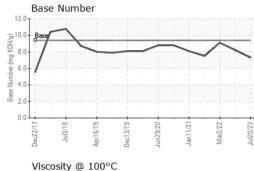
Fluid Condition

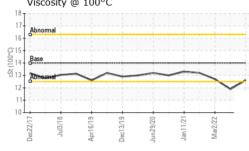
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

15)		Jec2017 Ju	2018 Apr2019 Dec20	19 Jun2020 Jan2021 Mar20	122 Jul2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		IL0030433	IL0022834	IL0024291
Sample Date		Client Info		20 Jul 2023	24 Oct 2022	02 Mar 2022
Machine Age	mls	Client Info		216114	194592	165459
Oil Age	mls	Client Info		0	29133	18000
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	ATTENTION	NORMAL
CONTAMINATION	٨	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	A 3.5	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	31	18	25
Chromium	ppm	ASTM D5185m		1	1	2
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	4	4	5
Lead	ppm	ASTM D5185m	>30	0	0	<1
Copper	ppm	ASTM D5185m	>150	2	3	1
Tin	ppm	ASTM D5185m	>5	0	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	8	35
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	68	54	41
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	1001	830	537
Calcium	ppm	ASTM D5185m		1233	1142	1810
Phosphorus	ppm	ASTM D5185m		1042	881	782
Zinc	ppm	ASTM D5185m		1279	1155	988
Sulfur	ppm	ASTM D5185m		3490	2975	1994
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	6	5	7
Sodium	ppm	ASTM D5185m		3	1	2
Potassium	ppm	ASTM D5185m	>20	<1	1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	11.0	11.3	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	23.6	24.0
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.9	22.0	23.6
	KOUK		0.4			
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	7.3	8.2	9.1



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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	TIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14	12.6	▲ 11.9	12.7
GRAPHS						

