

WEAR NORMAL NORMAL CONTAMINATION **FLUID CONDITION** NORMAL



ATLAS COPCO DM30 1E-7912

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (12 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	UOIVI	Client Info	LITTIU/ADT	JR0219665	JR0151111	JR0143311
Resample at the next service interval to monitor. (Customer Sample Comment: W68304)	Sample Date		Client Info		08 Jul 2024	01 May 2023	22 Dec 2022
	Machine Age	hrs	Client Info		23561	22177	21272
	Oil Age	hrs	Client Info		1384	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed	1110	Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	59	49	25
	Chromium	ppm	ASTM D5185m	>20	1	<1	<1
	Nickel	ppm	ASTM D5185m	>4	1	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	5	<1	8
	Lead	ppm	ASTM D5185m	>40	1	<1	1
	Copper	ppm	ASTM D5185m	>330	9	5	2
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	12	8	20
	Potassium	ppm	ASTM D5185m		6	2	2
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	/ 012	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1.1	0.6	0.4
	Nitration	Abs/cm	*ASTM D7624		8.5	8.2	8.7
	Sulfation	Abs/.1mm	*ASTM D7415		20.3	20.0	22.2
	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
FLUID CONDITION	Codium			. 150	 л	0	0
	Sodium Boron	ppm	ASTM D5185m ASTM D5185m		4 10	0 91	2 176
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm ppm	ASTM D5185m		16	111	209
	Manganese	ppm	ASTM D5185m	100	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	68	531	738
	Calcium	ppm	ASTM D5185m		2570	2194	1485
	Phosphorus	ppm	ASTM D5185m		956	1233	862
	Zinc		ASTM D5185m		1173	1523	1082
	Sulfur	ppm ppm	ASTM D5185m		3637	4026	3403
	Oxidation	Abs/.1mm	*ASTM D5185111		11.3	16.1	16.3
	Base Number (BN)				5.9	6.8	9.2
			AOTM D2030	0.0	5.5	0.0	10.0

Visc @ 100°C cSt

ASTM D445 14.4

14.1

13.2

14.1



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