

# WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

#### Alea Ascendum Machinery/250 Hour Service SANDVIK 56408 Diesel Engine Fluid DIESEL ENGINE OIL SAE 40 (--- GAL)

### 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.

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All component wear rates are normal.

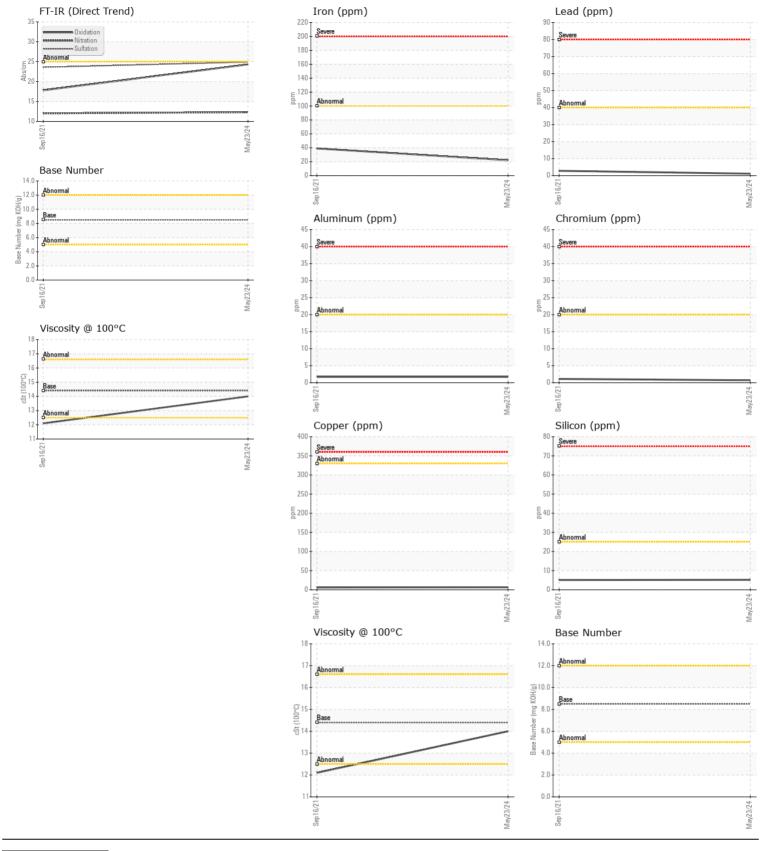
## CONTAMINATION

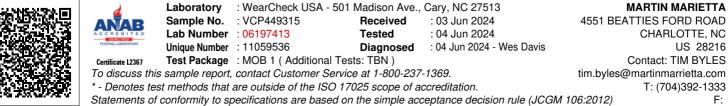
There is no indication of any contamination in the oil.

#### **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.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP449315	VCP327190	
Sample Date		Client Info		23 May 2024	16 Sep 2021	
Machine Age	hrs	Client Info		8624	3572	
Oil Age	hrs	Client Info		0	0	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	Changed	
Filter Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
			400			
Iron	ppm	ASTM D5185m	>100	22	39	
Chromium	ppm	ASTM D5185m	>20	<1	1	
Nickel	ppm	ASTM D5185m	>4	<1	0	
Titanium	ppm	ASTM D5185m	0	<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	2	
Lead	ppm	ASTM D5185m	>40	1	3	
Copper	ppm	ASTM D5185m	>330	6	6	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m	NONE	<1 NONE		
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>25	5	5	
Potassium	ppm	ASTM D5185m	>20	6	<1	
Fuel	1-1-	WC Method	>5	<1.0	1.1	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
Soot %	%	*ASTM D7844	>3	0.4	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	12.3	12	
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.9	23.6	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Sodium	ppm	ASTM D5185m	>216	2	3	
Boron	ppm	ASTM D5185m		46	17	
Barium	ppm	ASTM D5185m	10	0	0	
Molybdenum	ppm	ASTM D5185m	100	63	31	
Manganese	ppm	ASTM D5185m	450	<1	<1	
Magnesium	ppm	ASTM D5185m	450	307	599	
Calcium	ppm	ASTM D5185m	3000	1963	1794	
Phosphorus	ppm	ASTM D5185m	1150	1032	852	
Zinc	ppm	ASTM D5185m	1350	1220	1048	
Sulfur	ppm	ASTM D5185m	4250	3606	2699	
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.3	17.8	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.6		
Visc @ 100°C	cSt	ASTM D445	14.4	14.0	12.1	





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Contact/Location: TIM BYLES - MARCHANC Page 2 of 2