

TRANSMISSION POWER

SHIFT

T08P-54164-1722

SAMPLE SHIP TIME (days) : 7

CAPE MINING

CAPE MINING_118

BODDINGTON

RECEIVED DATE: 12-Jun-24

EQUIP NUM: CWT22

VOLVO A40D_VOLVO



Action Required

The elements are elevated. The copper concentration is high. Suggest check the filters and the magnetic screen for wear metal or contaminants. The copper is possibly leaching from the cooler core. As this oil has been changed, Resample to confirm any maintenance, adjustments or repairs. The oil viscosity (V40) is lower than the specification for the reported oil. Check the type and grade of the new oil. Please advise if any amendment or correction is required. Possible incorrect oil type reported. For all sample information update requests, please contact the SOS Lab on (08) 9377 9521. For enquiries regarding this evaluation, please contact Steve de Boer on (08) 9377 9575.

Interp By: Steve De Boer

Interpreted On: 14-Jun-24

SAMPLE INFORMATION



Sampled Date	05-Jun-24	30-Mar-23	30-Jun-20
Sample Id	T08P-54164-1722	T08P-53095-0436	T08P-50185-3300
Lab Date	12-Jun-24	05-Apr-23	03-Jul-20
Meter [Hr]	14038.0	13466.0	12930
Comp Meter [Hr]	14038.0	13466.0	
Meter On Fluid	1108.0		430
Fluid Brand	CALTEX	MOBIL	CALTEX
Fluid Weight	50	30	UNKNOWN
Fluid Type	DELO SYNTHETIC TR	MOBILTRANS HD	TEXAMATIC1888
Fluid Change	Y	N	Y
Filter Change	Y	N	Y
	0	0	

PREVIOUS SAMPLE

The oil viscosity (V40) is lower than the specification for the reported oil. This along with differences in the additive pack indicate incorrect oil details reported. The copper is possibly leaching from the cooler core. Monitor this in following samples for changes. The iron,, aluminium and tin are slightly high. Suggest, inspecting magplug/filter media and/or screens for wear metal and contaminants. All other test results appear satisfactory, continue to sample at regular intervals. For technical enquiries regarding this evaluation , please contact Richard Scott on (08) 9377 8703 .

For additional sample history, go to:

[S.O.S WEB](#)

CONDITION-CONTAMINATION

	05-Jun-24	30-Mar-23	30-Jun-20
OIL CONDITION			
OXI Oxidation	13	13	13
SUL Sulfur Products	19	19	20
NIT Nitration	4	3	3

ADDITIVES-WEAR LEVELS

	05-Jun-24	30-Mar-23	30-Jun-20
ELEMENTS (PPM) ASTM D5185			
Cu Copper	348	273	219
Fe Iron	32	24	20
Cr Chromium	<1	<1	<1
Al Aluminum	11	8	5
Pb Lead	3	3	2
Sn Tin	15	11	8
Si Silicon	2	2	2
Na Sodium	7	6	3
K Potassium	1	1	1
Mo Molybdenum	<1	<1	<1
Ni Nickel	<1	<1	<1
Ag Silver	<1	<1	<1
Ti Titanium	<1	<1	<1
V Vanadium	<1	0	<1
Mn Manganese	<1	0	<1
Cd Cadmium	0	0	<1
Ca Calcium	18	17	19
P Phosphorus	203	186	179
Zn Zinc	7	6	7
Mg Magnesium	2	1	4
Ba Barium	<1	0	<1
B Boron	62	66	67
In Indium		<1	
Sb Antimony	0	0	
Li Lithium	<1	<1	<1

VISCOSITY (Centistokes)

V40 Viscosity at 40 C	29.13	29.12	30.2
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CRACKLE TEST

W Water	N	N	N
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WATER VALUE (%)

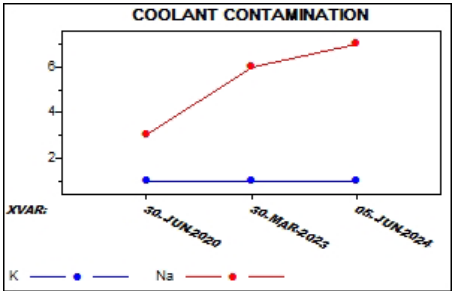
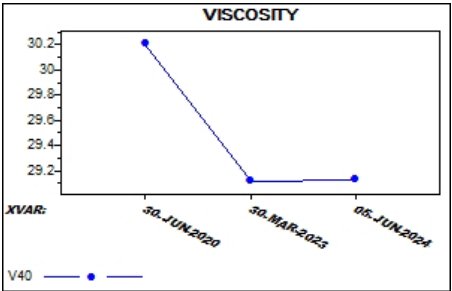
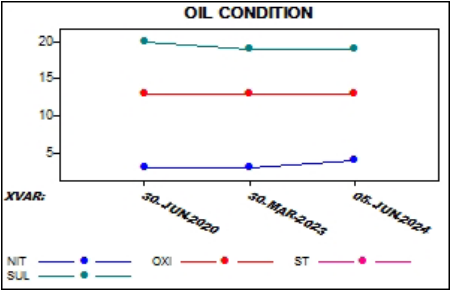
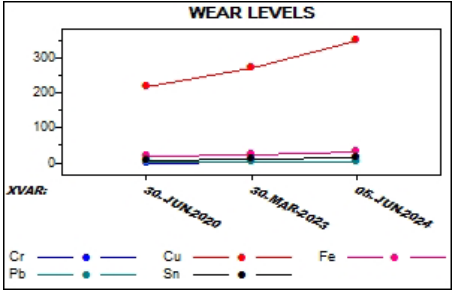
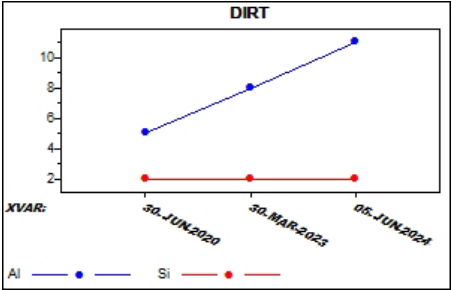
Water Water %	0.0
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OIL CLEANLINESS

	05-Jun-24	30-Mar-23	30-Jun-20
PARTICLE COUNT			
ISO4 ISO4	22	21	21
ISO6 ISO6	18	17	18
ISO14 ISO14	13	13	14
4μ 4μ	25969	13864	16207
6μ 6μ	1674	894	2148
10μ 10μ	164	151	278
14μ 14μ	64	63	104
21μ 21μ	19	21	35
25μ 25μ	8	11	22
38μ 38μ	1	2	3
70μ 70μ	0	0	0

PQI

PQI PQ Index	3	5	5
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Report Comment

NOTICE: This analysis is intended as an aid in predicting mechanical wear and is based upon the supplied information and the results presented in this report. All reported values are tested according to in-house test methods. The results are on an "as received" sample basis. The information supplied by the client is listed in the Sample Information panel of the above report. No guarantee, expressed or implied, is made against failure of this piece of equipment or component.