WESTRAC WA SOS Lab - 128 Great Eastern Highway (next to Institute)
South Guildford, WA 6055 AUS
PHONE: (08) 9377 9521
Web: www.westrac.com.au Email: soslab.wa@westrac.com.au

Certified System Quality ISO 9001 SAI GLOBAL

GEARBOX O/S STUB | **EQUIP NUM: SP30** | **SERIAL NUMBER: K0570202**

UNKNOWN MS20D

T08P-54295-1006
SAMPLE SHIP TIME (days) : 5
CAPE MINING
CAPE MINING_118
BODDINGTON
LOCATION: 118 - BODDINGTON
RECEIVED DATE: 21-Oct-24

Monitor Compartment

Interp By: Maker Jok
Interpreted On: 22-Oct-24

The aluminium and silicon indicate a possible dirt entry. Check the seals, breathers and fill point for dirt entry points. The PQ index and iron are slightly high. Check any contamination capturing devices fitted for debris. As this oil has been changed; monitor and continue sampling at the normal interval. For all sample information update requests, please contact our SOS Lab reception on (08) 9377 9521. For technical enquiries regarding this evaluation, please contact Maker Jok on (08) 9377 9494.

SAMPLE INFORMATION

Sampled Date	16-Oct-24	11-Aug-24	17-Apr-24	31-Jan-24
Sample Id	T08P-54295-1006	T08P-54228-0519	T08P-54115-2327	T08P-54036-1807
Lab Date	21-Oct-24	15-Aug-24	24-Apr-24	05-Feb-24
Meter [Hr]	6469.0	5968.0	4968.9	4515.8
Comp Meter [Hr]	6469.0	5968.0	4968.9	4515.0
Meter On Fluid	501.0	999.1	979.0	526.7
Fluid Brand	CALTEX	CALTEX	CALTEX	CALTEX
Fluid Weight	220-ISO	220-ISO	220-ISO	220-ISO
Fluid Type	MEROPA	MEROPA	MEROPA	MEROPA
Fluid Change	Y	Y	Y	N
Filter Change	NA	NA	NA	NA
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

The iron concentration is slightly high. Possibly due to dirt entry. The PQ index is increasing. Suggest check the magnetic plug, screens and/or filters for debris. Check the seals, breathers and fill point for dirt entry points. Resample to confirm any maintenance, adjustments or repairs. 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.

For additional sample history, go to: S.O.S WEB

ADDITIVES-WEAR LEVELS

		16-Oct-24	11-Aug-24	17-Apr-24	31-Jan-24
ELEMENTS (PPM) ASTM D5185					
Cu	Copper	<1	<1	<1	<1
Fe	Iron	86	92	9	9
Cr	Chromium	<1	<1	<1	<1
Al	Aluminum	11	10	<1	<1
Pb	Lead	<1	<1	<1	<1
Sn	Tin	<1	<1	<1	<1
Si	Silicon	36	35	2	2
Na	Sodium	3	3	<1	<1
K	Potassium	2	1	<1	<1
Mo	Molybdenum	<1	<1	<1	<1
Ni	Nickel	<1	<1	<1	<1
Ag	Silver	<1	<1	<1	<1
Ti	Titanium	<1	<1	<1	<1
V	Vanadium	<1	<1	<1	0
Mn	Manganese	<1	<1	<1	0
Cd	Cadmium	0	0	0	0
Ca	Calcium	21	21	35	36
P	Phosphorus	176	190	302	306
Zn	Zinc	11	10	21	20
Mg	Magnesium	7	6	3	4
Ba	Barium	<1	<1	<1	0
B	Boron	7	6	14	12
Sb	Antimony	0	0	0	0
Li	Lithium	1	1	<1	<1

CONDITION-CONTAMINATION

		16-Oct-24	11-Aug-24	17-Apr-24	31-Jan-24
OIL CONDITION					
OXI	Oxidation	3	3	5	5
SUL	Sulfur Products	13	12	13	13
NIT	Nitration	3	3	4	3
VISCOSITY (Centistokes)					
V40	Viscosity at 40 C	215.4	214.6	197.7	208.9
CRACKLE TEST					
W	Water	N	N	N	N

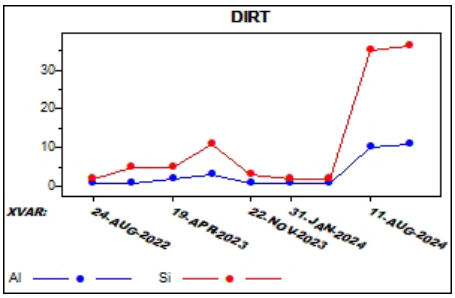
OIL CLEANLINESS

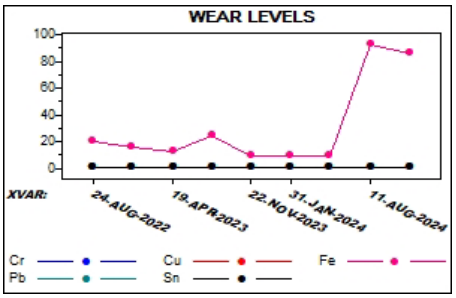
		16-Oct-24	11-Aug-24	17-Apr-24	31-Jan-24
PARTICLE COUNT					
ISO4	ISO4	22	23	22	21
ISO6	ISO6	20	22	20	17
ISO14	ISO14	14	16	14	13
4µ	4µ	23540	71607	36294	11861
6µ	6µ	7399	28703	5573	1190
10µ	10µ	569	2850	362	110
14µ	14µ	106	610	88	42
21µ	21µ	20	123	18	17
25µ	25µ	7	44	7	9
38µ	38µ	2	5	2	1
70µ	70µ	1	0	0	0
PQI					
PQI	PQ Index	49	33	1	1

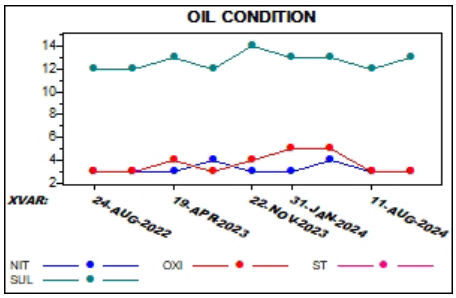
GEARBOX O/S STUB
SERIAL NUMBER: K0570202
EQUIP NUM: SP30
UNKNOWN MS20D

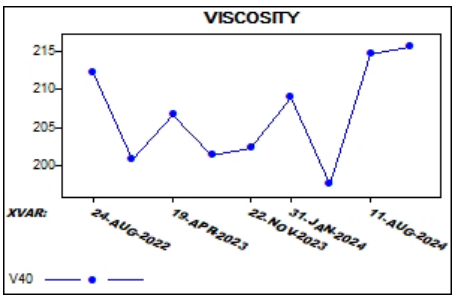
T08P-54295-1006

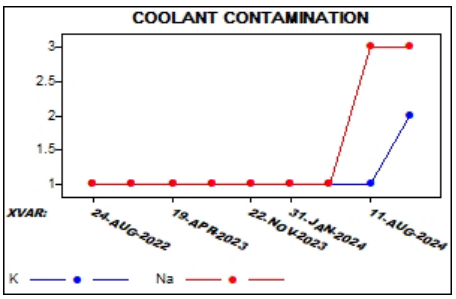
Monitor Compartment











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.