WESTRAC WA SOS Lab - 128 Great Eastern Highway (next to Institute)
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Certified System Quality ISO 9001 SAI GLOBAL

FEED CONVEYOR GEARBOX | **EQUIP NUM: SP30 UNKNOWN MS20D** | **SERIAL NUMBER: K0570202**

T08P-54295-1008
SAMPLE SHIP TIME (days) : 5
CAPE MINING
CAPE MINING_118
BODDINGTON
LOCATION: 118 - BODDINGTON
RECEIVED DATE: 21-Oct-24

Urgent Action Required

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

The sodium and potassium may indicate washdown/external water entry. Aluminium and silicon indicate a possible dirt entry. Check the seals, breathers and fill point for water / dirt entry points. The iron concentration is very high. PQ index is high. Chrome is slightly high. This sample is unsuitable for particle count analysis. Fine ferrous metal particles are visible in this sample. Check any contamination capturing devices fitted for debris (magnetic plugs, screens, filters etc). Check the sample point and the sampling procedure. As this oil has been changed, resample to confirm any maintenance, adjustments or repairs. 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	12-Jun-24	17-Apr-24
Sample Id	T08P-54295-1008	T08P-54228-0515	T08P-54169-1128	T08P-54115-2325
Lab Date	21-Oct-24	15-Aug-24	17-Jun-24	24-Apr-24
Meter [Hr]	6469.0	5968.0	5511.4	4968.9
Comp Meter [Hr]	6469.0	5968.0	5511.4	4968.9
Meter On Fluid	501.0	456.6	542.5	979.0
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	Y
Filter Change	NA	NA	NA	NA
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

The oil additives indicate oil types may have been mixed or wrong oil reported. Check the type and grade of the new oil. Please advise if any amendment or correction is required. All other test results are acceptable. 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	12-Jun-24	17-Apr-24
ELEMENTS (PPM) ASTM D5185					
Cu	Copper	5	6	<1	3
Fe	Iron	1371	18	<1	14
Cr	Chromium	11	<1	<1	<1
Al	Aluminum	247	<1	<1	<1
Pb	Lead	<1	<1	<1	<1
Sn	Tin	<1	<1	<1	<1
Si	Silicon	819	2	<1	2
Na	Sodium	63	<1	<1	<1
K	Potassium	48	<1	<1	<1
Mo	Molybdenum	<1	<1	<1	<1
Ni	Nickel	2	<1	<1	<1
Ag	Silver	<1	<1	<1	<1
Ti	Titanium	27	<1	<1	<1
V	Vanadium	<1	<1	<1	<1
Mn	Manganese	10	<1	<1	<1
Cd	Cadmium	0	0	0	0
Ca	Calcium	199	169	2	178
P	Phosphorus	232	282	303	290
Zn	Zinc	38	68	1	73
Mg	Magnesium	106	8	1	8
Ba	Barium	2	<1	<1	<1
B	Boron	9	10	15	12
Sb	Antimony	0	0	0	0
Li	Lithium	<1	<1	<1	<1

CONDITION-CONTAMINATION

		16-Oct-24	11-Aug-24	12-Jun-24	17-Apr-24
OIL CONDITION					
OXI	Oxidation	3	2	5	4
SUL	Sulfur Products	15	7	13	13
NIT	Nitration	3	2	4	4
VISCOSITY (Centistokes)					
V40	Viscosity at 40 C	210.9	204.4	221.5	201.7
CRACKLE TEST					
W	Water	N	N	N	N

OIL CLEANLINESS

		16-Oct-24	11-Aug-24	12-Jun-24	17-Apr-24
PARTICLE COUNT					
ISO4	ISO4		23	23	22
ISO6	ISO6		20	22	20
ISO14	ISO14		16	17	14
PC Ra	PC Rating	VISIBLE DEPOS			
4µ	4µ		41429	62095	36767
6µ	6µ		9276	31033	6156
10µ	10µ		1077	5103	486
14µ	14µ		366	748	128
21µ	21µ		119	34	30
25µ	25µ		62	8	15
38µ	38µ		20	2	2
70µ	70µ		5	1	0
PQI					
PQI	PQ Index	970	4	0	6

FEED CONVEYOR GEARBOX
SERIAL NUMBER: K0570202
EQUIP NUM: SP30
UNKNOWN MS20D

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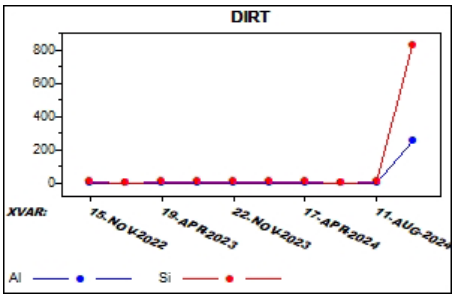
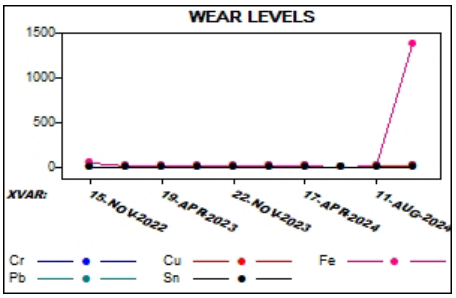
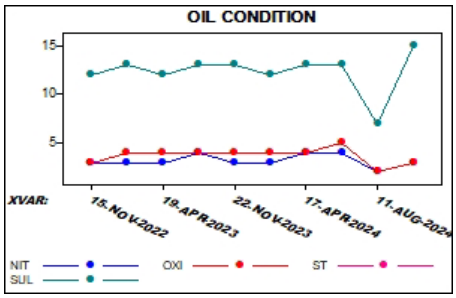
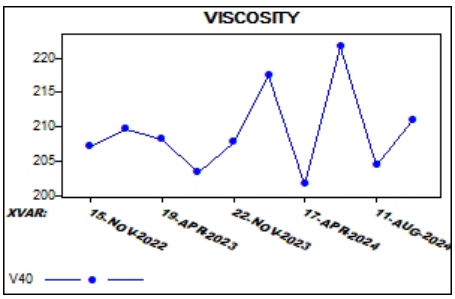
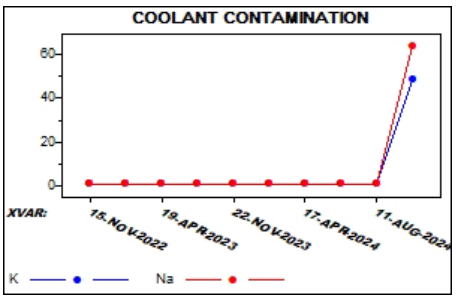
Urgent Action Required











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.