



Equipment No

Insulating Oil Test Report

Our Ref 3TXU93108

Customer Total Generators

34 Blue Eagle Drive 4131

Report No.: 000168407

Oil Testing Services

Plant ID

Location CENTURY MINE KARUMBA

Rating (KVA) 2500

Date Received: 24.05.2021

Serial No J18003-1

Feeder TX 2

Voltage 11000

Date Completed: 28.05.2021

Manufacturer OPMI

Phase

YOM 2018

Report Date: 04.06.2021

Sample
Plant

DGA

Oil

Moist

Insul

Green
GreenGreen
Green

Sample Date	Hydrogen H2 ppm	Oxygen O2 ppm	Nitrogen N2 ppm	Methane CH4 ppm	Carbon Monoxide CO ppm	Carbon Dioxide CO2 ppm	Ethylene C2H4 ppm	Ethane C2H6 ppm	Acetylene C2H2 ppm	Total Gas ppm	TCG ppm	Propane C3H8 ppm	Propylene C3H6 ppm
13.05.2021	103	1450	52800	11	462	2940	20	3	<1	<57800	<600	0.5	4
BMT	DGA is assessed as acceptable. Moisture is assessed as acceptable. RECOMMEND RESAMPLE IN 1 YEAR TO ESTABLISH TREND. Assessment based on single result, no trending data available.												

Sample Date	Lab ID	Oil Temp	Load	Moisture *	Breakdown	Acidity	IFT	DDF	Resistivity	Colour	DBPC	5-Hydroxyl Furfural	2-Furfural	2-Furfural	2-Acetyl Furan	5-Methyl Furfural	Furan Age	Est. DP	Irgamet 39	PCB
			Amps	ppm (20C)	KV	mg KOH/g	mN/m	@90C	G Ohms.m		%	ppm	ppm	ppm	ppm	ppm	PQ Algorithm		ppm	ppm
13.05.2021	399488	54	---	11 (2)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

* Note: where temperatures are supplied, the equivalent ppm at 20C is reported in brackets as per IEC 60599

"ND" = not detected. " --- " = not tested.

Analysis results relate to the condition of the sample as received. Responsibility for sampling rests entirely with the customer. This report shall not be reproduced except in full.

Laboratory Procedures: DGA A2162313/A2454491/A2596295, Moisture A2162302, Acidity A2474242, Furans A2488590/A2562701, Breakdown Voltage A2162306, DDF/Res A2162309,

Inhibitor A2527035, IFT A2301288, Colour A2570586, Irgamet A2301920, Corrosive Sulphur A2693845

PDF: 000168407 GRN CENTURY MINE KARUMBA TX 2 J18003-1 Satisfactory

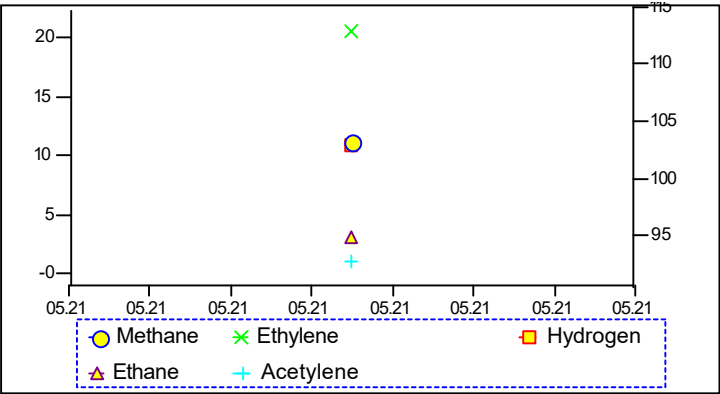
Retest Date: 13.05.2022

Gavin Matthews

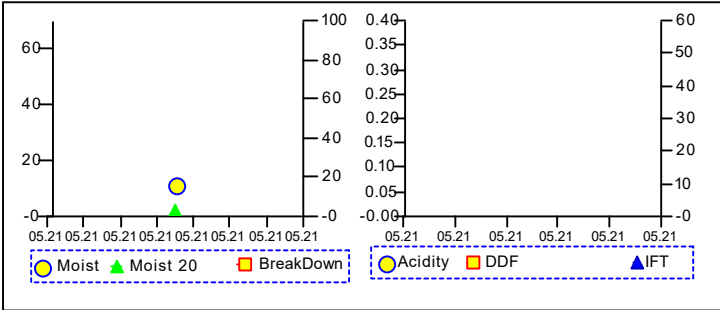
Laboratory Technical Specialist

Sample Date	Lab ID	Job No	PC 5-15	PC 15-25	PC 25-50	PC 50-100	PC 100	ISO 4	ISO 6	ISO 14	DBDS ppm
13.05.2021	399488		---	---	---	---	---	---	---	---	---

Key Gas Indicators



Oil Quality



Carbon Oxides & 2-Furfural

